

CFD-21

SERVICE MANUAL

US Model

- The CFD-21 is similar to the earlier CFD-20 (WHITE TYPE : US Model).
- Refer to the CFD-20/30 SERVICE MANUAL for the information not contained in this service manual
- The following are used only in the CFD-21.

PARTS LIST (The difference between CFD-21 and CFD-20)

Page on CFD-20/30 SERVICE MANUAL	Ref. No.	Part No.	Description
37	2	3-913-546-01	HOLDER, CASSETTE
	5	X-3368-355-1	CABINET (FRONT) ASSY
	SP101	1-504-308-11	SPEAKER (10cm)
	SP301		
39	119	3-913-547-01	CABINET (REAR)
52	—	* 3-914-972-01	INDIVIDUAL CARTON
	—	3-757-125-22	MANUAL, INSTRUCTION (ENGLISH)
	#4	7-682-149-13	+P 3×10 BSW, NI-N

NOTE :

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CD RADIO CASSETTE - CORDER
SONY®

Sony Corporation
General Audio Group

9-959-437-11

English
94C0431-1D
Printed in Japan
© 1994.3

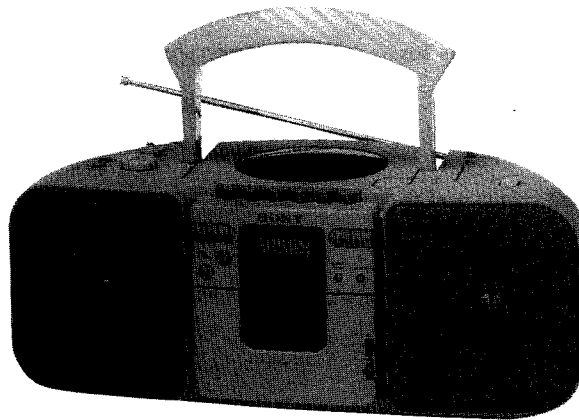
Published by Audio Sector Quality Assurance Dept.

CFD-20/30

SERVICE MANUAL

US Model
Canadian Model
CFD-20

US Model
E Model
CFD-30



This photo is CFD-30 and white type.

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.0-ohm loads, both channels driven from 150-15,000 Hz: rated 2.3 W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other Specifications

CD player section

System Compact disc digital audio system
Laser diode properties Material: GaAlAs
Wavelength 780 nm
Emission duration: Continuous
Laser output: less than 44.6 μ W
This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.

Frequency response 20-20,000 Hz $\pm$ 2 dB
Wow and flutter Below measurable limit

Radio section

Frequency range FM: 87.6-108 MHz
AM: 530-1,710 kHz
Antennas FM: Telescopic antenna
AM: Built-in ferrite bar antenna

Tape recorder section and general

Recording system 4-track 2-channel stereo
Frequency response 70-10,000 Hz
(with TYPE I (NORMAL) cassette)
Speaker Full-range speakers: 10 cm dia., cone type
Power output (for 4.6W (2.3 W + 2.3 W) (at 3.0 ohms, Canada model) 10% harmonic distortion)
Input Mixing microphone input jack (minijack)
Sensitivity 2.5 mV
For low impedance microphone

Output Headphones jack (stereo minijack)
For 16-68 ohms impedance headphones
Power requirements 120V AC, 60 Hz
DC 9 V, 6 size D (R20) batteries
Power consumption 25 W
Battery life (hours)

	FM recording	Tape playing	CD playing
Sony SUM-1 (NS)	approx. 9	approx. 6	approx. 2.5
Sony Alkaline AM 1 (N)	approx. 16.5	approx. 11	approx. 4.5

Dimensions Approx. 410 $\times$ 170 $\times$ 235 mm (w/h/d)
(Approx. 16 $\frac{1}{4}$ $\times$ 6 $\frac{3}{4}$ $\times$ 9 $\frac{3}{8}$ inches)
incl. projecting parts and controls
Weight Approx. 4.2 kg, incl. batteries
(Approx. 9 lb 5 oz)
Supplied accessory AC power cord (1)

Design and specifications subject to change without notice.



CD RADIO CASSETTE-CORDER
SONY[®]

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

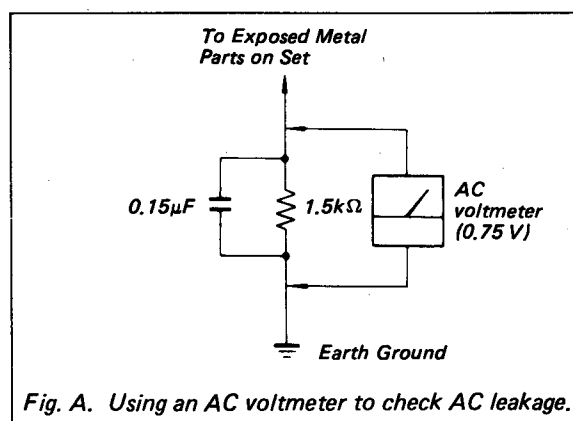


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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

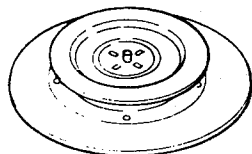
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

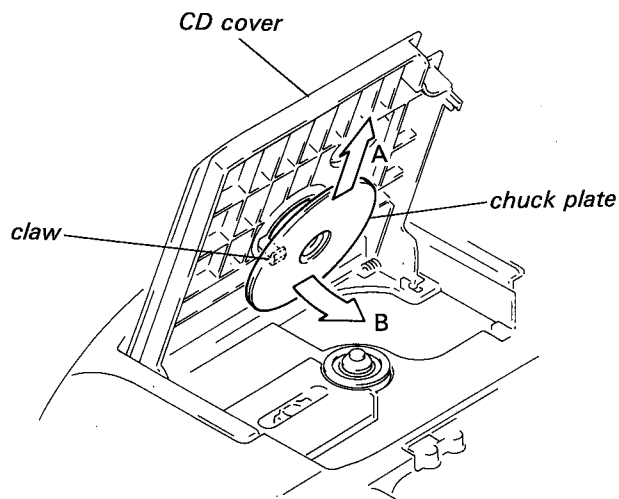
- Code number of Chuck Plate Jig: X-4918-255-1



Removing the chuck plate

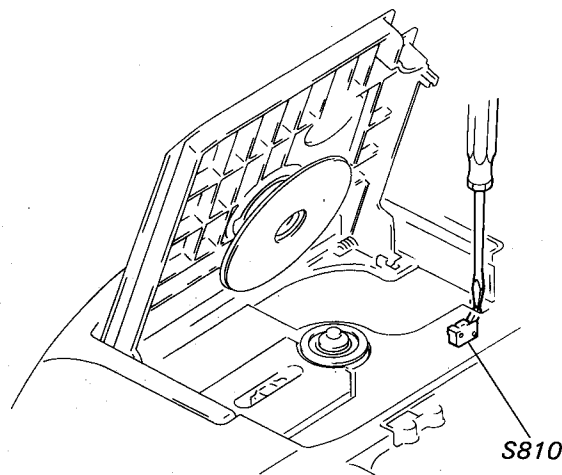
The chuck plate of this unit can be removed and used as a chuck plate jig.

1. Pull the chuck plate in the direction A.
2. Press the claw of the CD cover, and remove the chuck plate in direction B.



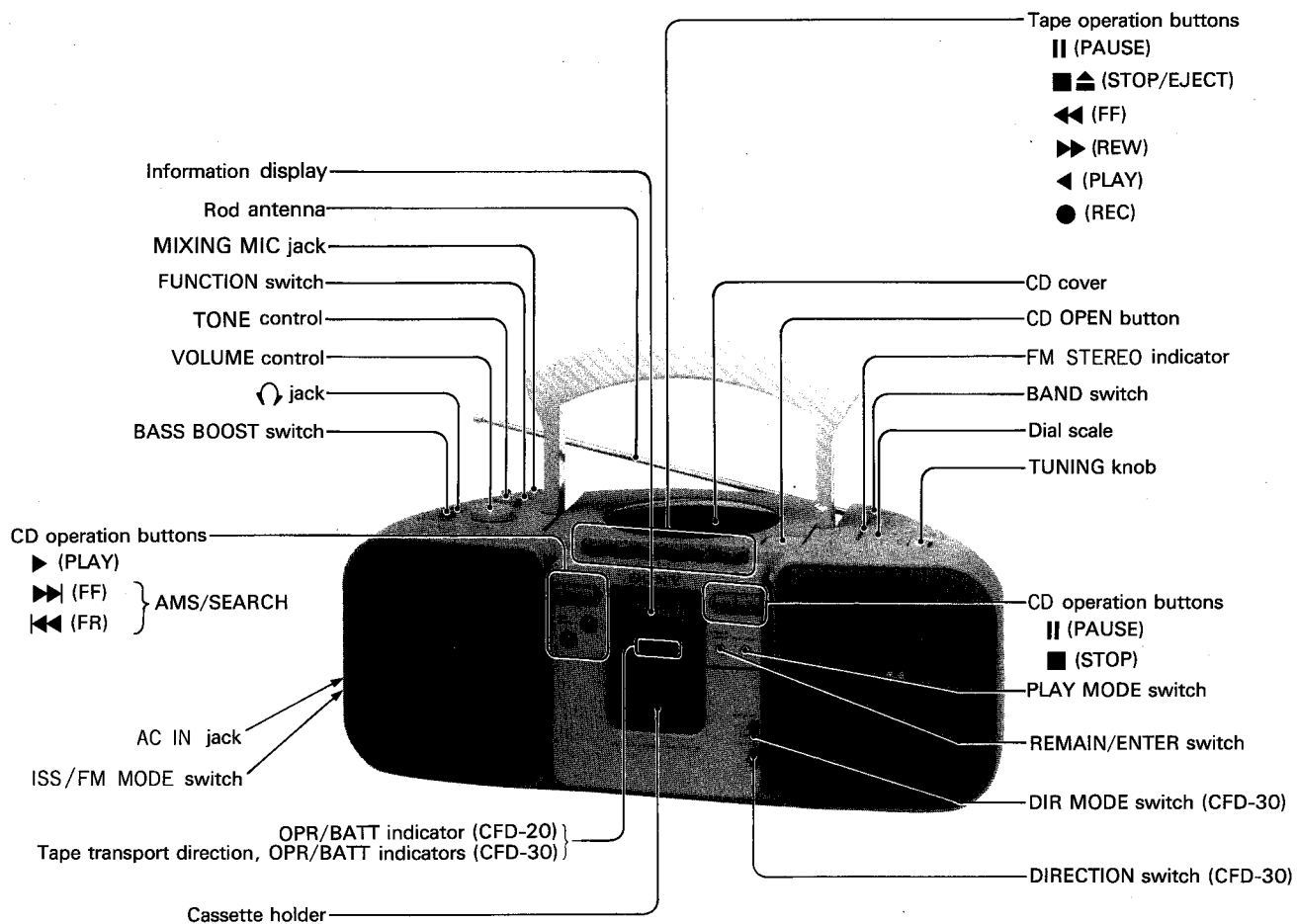
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Make Function switch to CD position with no disc inserted.
2. Open the lid for CD.
3. Turn on S810 as following figure.
4. Press ► key.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken. Objective lens moves up and down once for the focus search.

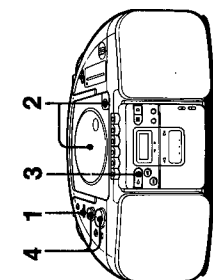


SECTION 2 GENERAL

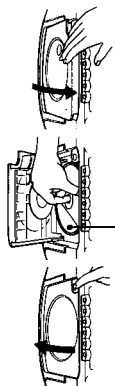
LOCATION OF CONTROLS



Playing a Disc—An 8 cm (3 inch) CD can be played without an adaptor.

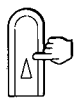


2 Place a disc.



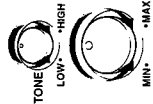
Press completely. The number of selections in the disc and the total playing time will appear in the display window.

3



First selection
Elapsed playing time

4



To pause: Press [0]. To resume play, press [0] again.
To eject a disc: Press CD OPEN.

To reinforce the bass sound: Press BASS BOOST ([] ON).

While listening to the tape or radio
You can also adjust the sound with BASS BOOST.

Note on BASS BOOST
BASS BOOST is most effective around the third position from MIN of the volume range. Even if you raise the volume more, the BASS BOOST effect will be negligible.

Notes on compact discs
This way



Handle the disc by its edge.

Not this way



Do not touch the surface.

Not this way

Do not stick paper or tape nor write anything on the surface.

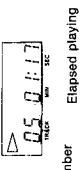
To stop play



To turn off the unit
Set FUNCTION to TAPE
COURT RADIO OFF.

Information Display

During playing



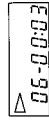
Selection number being played

While CD player is set in pause

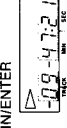


Pause indication appears

Between selections
Remaining time until the next selection is displayed.



To display the remaining time in the disc being played
Press REMAIN/ENTER



Remaining number of selections
Total remaining time in disc
To return to the normal display, press REMAIN/ENTER again.

Note
During shuffle or program play, the remaining time in the disc is not displayed even if REMAIN/ENTER is pressed.

Locating a Particular Portion

To locate the beginning of the current selection



Press once.

To go back at high speed



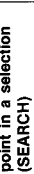
Press once.

To locate the beginning of the next selection



Press once.

To go ahead at high speed



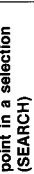
Keep pressed.

Locating a particular selection (AMS)*



Press once.

To go ahead at high speed



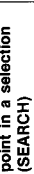
Keep pressed.

Locating a particular point in a selection (SEARCH)



Press once.

To go ahead at high speed



Keep pressed.

*AMS is the abbreviation of Automatic Music Sensor.

Notes on the AMS function

- The player pauses at the beginning of the located selection when you press [] or [] in pause mode.
- If you press [] repeatedly, the player locates the previous selections.
- If you press [] repeatedly, the player locates the selections ahead and stops at the last selection.

Selecting Various Playing Modes

Each time PLAY MODE is pressed, play mode changes as follows. To stop the disc, press []. Operate while listening to the disc. However, select INTRO scan play when disc is not being played.

Play mode	Button to be pressed	Front display window
Scanning all the selections —INTRO scan play	1 Press PLAY MODE once when disc is not being played.	16 55:32 INTRO TRACK MIN SEC
Beginnings of selections are played for 10 seconds successively.	2 Press []	01 00:01 INTRO TRACK MIN SEC
Repeating one selection —REPEAT 1	Press PLAY MODE once more while listening to the desired selection.	05 0:17 REPEAT TRACK MIN SEC
Repeating all the selections —REPEAT ALL	Press [] or [] for another selection.	05 0:17 REPEAT TRACK MIN SEC
Playing repeatedly in a random order —REPEAT SHUTTLE	Press PLAY MODE once more.	05 0:17 REPEAT TRACK MIN SEC

1 Press PLAY MODE once more.	2 Choose the desired selection with [] or []	3 Press REMAIN/ENTER	4 Repeat steps 2 and 3 (Up to 16 selections)	5 Press []
PLAY MODE	AMS SEARCH	REMAIN/ENTER	The selection is stored.	MEM disappears and play starts.
5th Selection	Program 1	Program 2		
00 01 TRACK MIN SEC	05 01 TRACK MIN SEC	00 02 TRACK MIN SEC		05 00:01 TRACK MIN SEC
00 01 TRACK MIN SEC	00 01 TRACK MIN SEC	00 01 TRACK MIN SEC		00 01 TRACK MIN SEC

To return to normal play, press PLAY MODE once more.
When you open the disc holder or you press [] If another selection is stored after 16 selections have been stored, the first selection will be cleared and the new one will be stored in its place.

This section is extracted from instruction manual.

SECTION 4 MECHANICAL ADJUSTMENT

PRECAUTION

- Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers
- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- Power supply voltage : 9V dc.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30—75g · cm (0.41—1.04 oz · inch)
Forward back tension	CQ-102C	1.5—6g · cm (0.020—0.083 oz · inch)
Reverse	CQ-102RC	30—75g · cm (0.41—1.04 oz · inch)
Reverse back tension	CQ-102RC	1.5—6g · cm (0.020—0.083 oz · inch)
Fast Forward	CQ-201B	60—130g · cm (0.83—1.80 oz · inch)
Rewind	CQ-201B	60—130g · cm (0.83—1.80 oz · inch)

Tape Tension Measurement (CFD-20)

Mode	Meter	Meter reading
Forward	CQ-403A	more than 150g (more than 5.28 oz)

Tape Tension Measurement (CFD-30)

Mode	Meter	Meter reading
Forward	CQ-403A	more than 90g (more than 3.16 oz)
Reverse	CQ-403R	

SECTION 5 ELECTRICAL ADJUSTMENT

5-1. TAPE RECORDER SECTION

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording. The adjustments should be performed for both L-CH and R-CH.

Standard Output Level

Output terminal	PHONES
load impedance	32Ω
output signal level	0.25V (−10dB)

0dB = 0.775V

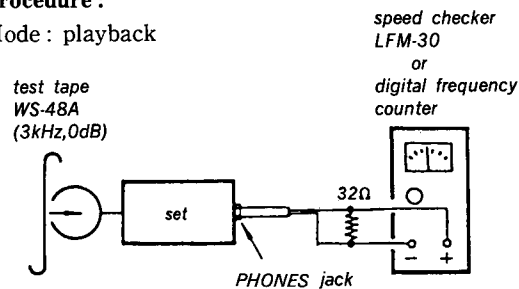
Test Tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment
P-4-A063	6.3kHz, −10dB	azimuth adjustment

Tape Speed Adjustment

Procedure :

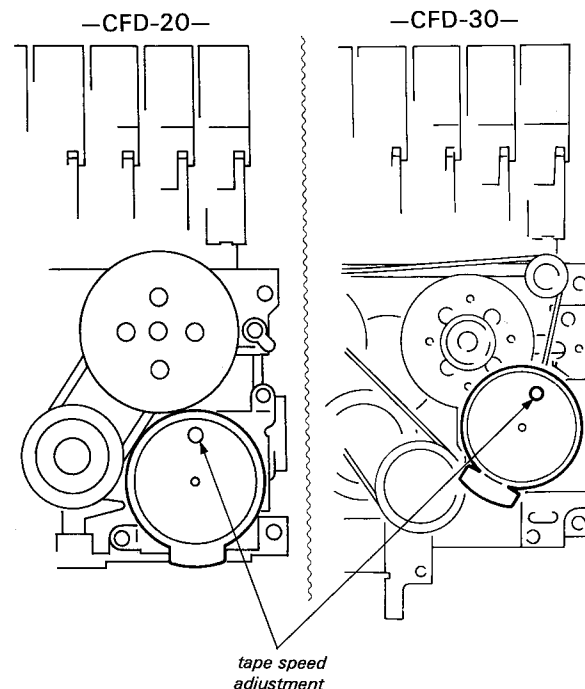
Mode : playback



Adjustment Value :

Speed checker	Digital frequency counter
−1.5% to +1.5%	2,955 to 3,045Hz

Adjustment Location : Mechanism Deck block

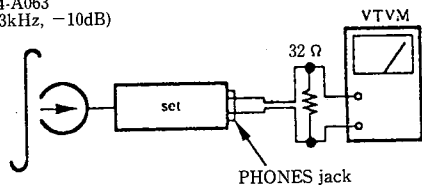


Record/Playback Head Azimuth Adjustment

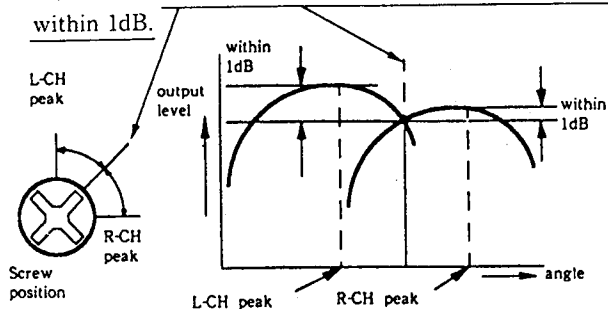
Procedure :

1. Mode: FWD playback

test tape
P-4-A063
(6.3kHz, -10dB)



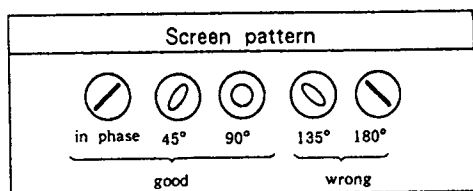
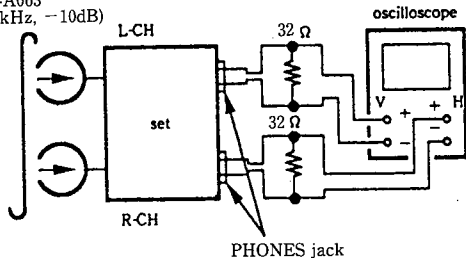
2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



3. Phase Check

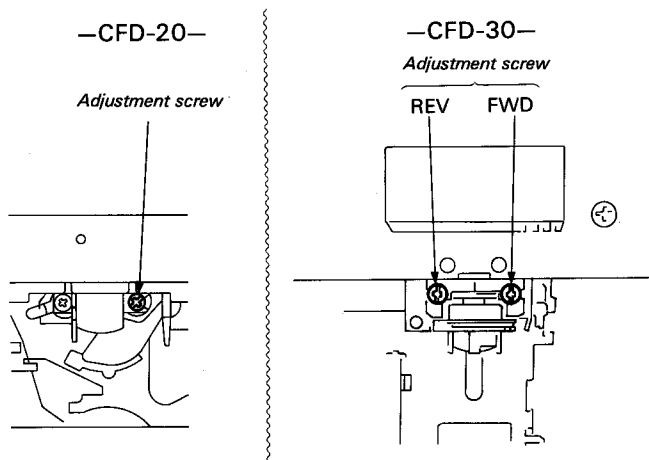
Mode: playback

test tape
P-4-A063
(6.3kHz, -10dB)



4. Set in the REV mode and repeat the step 1-3. (CFD-30)
5. After the adjustment, lock the screws with locking compound.

Adjustment Location : Record/playback head



Record Bias Adjustment

Procedure :

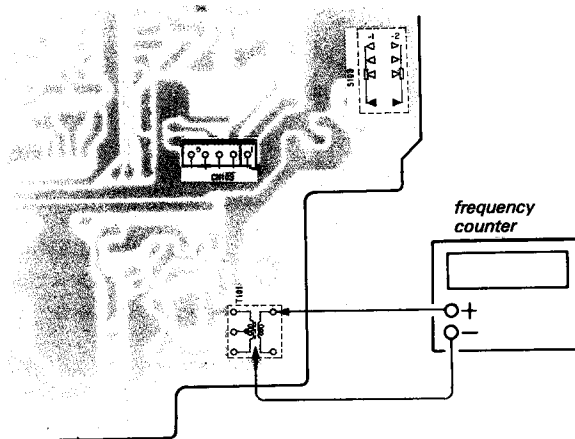
Mode : REC

ISS/FM MODE switch : 2/STEREO

Procedure :

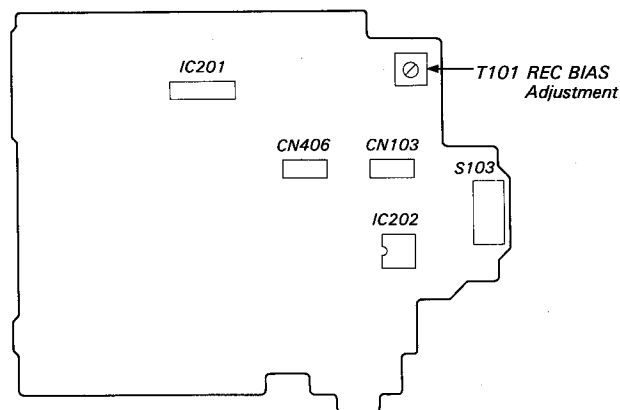
1. Connect the frequency counter as shown below.
2. Adjust with T101 so that the reading on the frequency counter becomes 76kHz.

【AUDIO BOARD】 (CONDUCTOR SIDE)



Adjustment Location :

【AUDIO BOARD】 (COMPONENT SIDE)

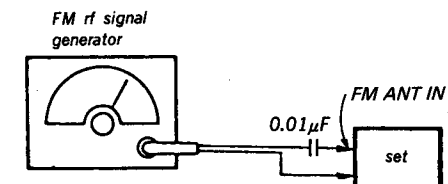


5-2. RADIO SECTION

● FM Section

Setting :

FUNCTION switch : FM

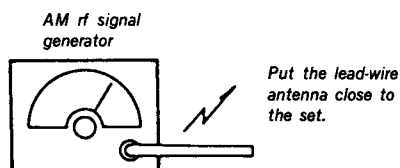


22.5kHz frequency
deviation by 400Hz signal
output level : as low as possible

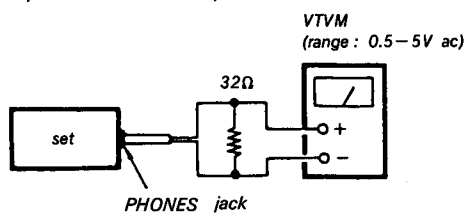
● AM Section

Setting :

FUNCTION switch : AM



30% amplitude
modulation by
400Hz signal
output level : as low as possible



FM Frequency Coverage Adjustment	
Adjust for a maximum reading on VTVM.	
L2	CT2
86.5MHz	109.5MHz

FM Tracking Adjustment	
Adjust for a maximum reading on VTVM.	
L1	CT1
90MHz	106MHz

AM IF Adjustment	
Adjust for a maximum reading on VTVM.	
T1	
455kHz	

AM Frequency Coverage Adjustment	
Adjust for a maximum reading on VTVM.	
L3	CT4
515kHz	1,780kHz

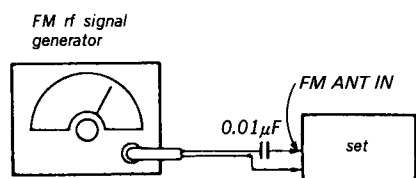
AM Tracking Adjustment	
Adjust for a maximum reading on VTVM.	
L4	CT3
600kHz	1,400kHz

Adjustment Location see page13.

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM VCO Adjustment

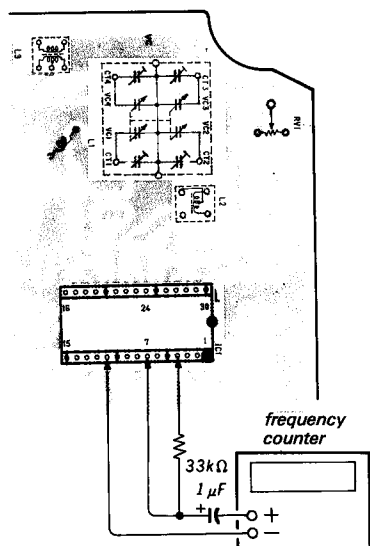
Procedure :



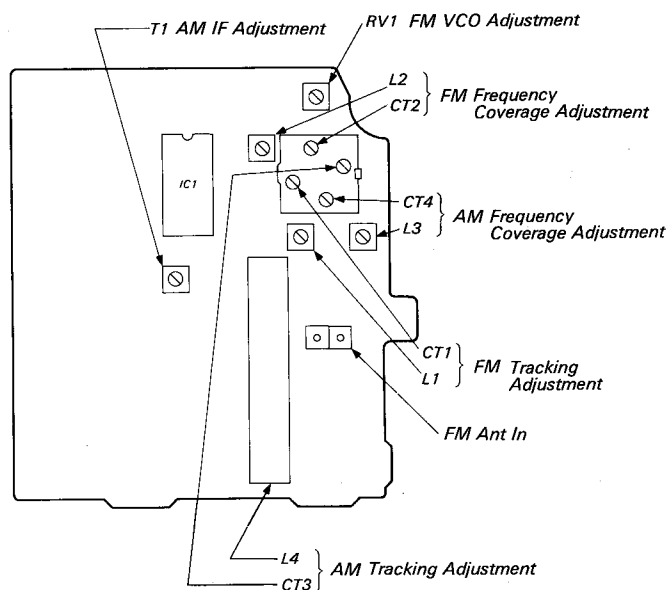
Carrier frequency : 98MHz
Modulation : no modulation
Output level : 0.1V (100dB)

1. Connect the frequency counter as shown below.
2. Tune the set to 98MHz.
3. Adjust RV1 for 76kHz $\pm$ 0.3kHz reading on the frequency counter.

[TUNER BOARD] (conductor side)



Adjustment Location : TUNER board (component side)



5-3. CD SECTION

Notes on Adjustment

1. Perform adjustment in test mode.
After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.

Before Adjustment

Put the set into test mode and perform the following checks.
Repair if there are any problems.

● Sled Motor Check

1. Press ► key, then press ■ key.
2. Press ►►, ◄◄ keys and confirm that the FOP moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises. (Cancellation of BTL mute.)
►► : FOP moves to the outer circumference
◄◄ : FOP moves to the inner circumference

● Focus Search Check

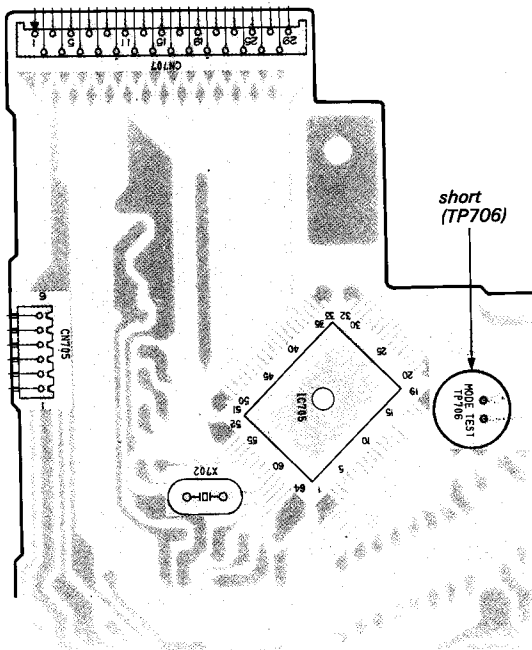
1. Press ► key. (Focus search operation is performed continuously.)
2. Look at the FOP objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
3. Press ■ key.
Confirm that focus search operation stops. If it does not, press ■ key again longer.

Note : When the malfunction is occurred by mis-passing other keys, turn off the power and check again from making the test mode.

How to Put the Set into Test Mode

1. Short-circuit following portion (TP706) on the CD MAIN board.
2. Turn the POWER on.
3. Release the short.

【CD MAIN BOARD】 (conductor side)

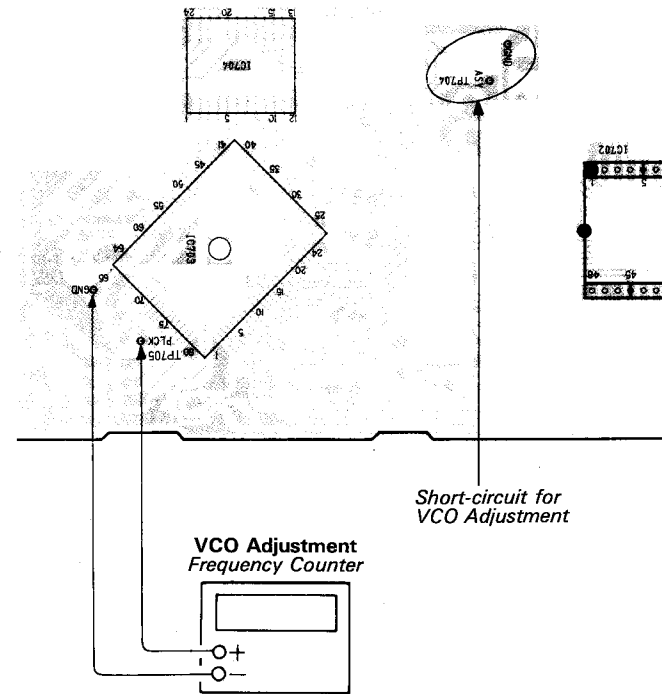


VCO Adjustment

1. Short-circuit the TP704 (ASY) and GND on the CD MAIN board.
2. Connect the frequency counter to the TP705 (PLCK).
3. Adjust with RV704 so that the reading on the frequency counter becomes 4.3218 MHz.
4. Release the short.

Adjustment Location : CD MAIN board (See page 15)

【CD MAIN BOARD】 (conductor side)

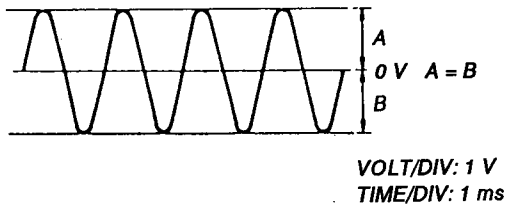


E. F Balance Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment Procedure:

1. Connect the oscilloscope between IC701 pins ② and ⑨.
2. Put the set into test mode. (See page 14)
3. Press the ►► and ◄◄ keys to move the FOP to the center.
4. Insert disc (YEDS-18) and press ► key.
5. Adjust RV701 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
6. Release test mode after adjustment is completed.

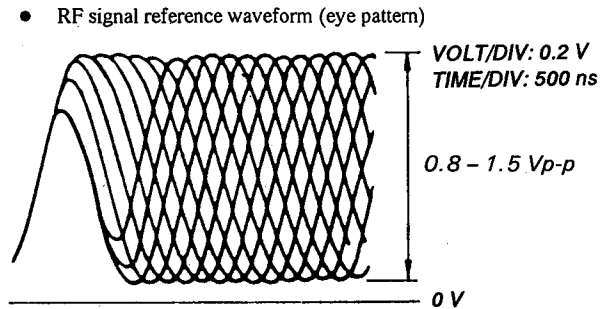


Focus Bias Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment Procedure:

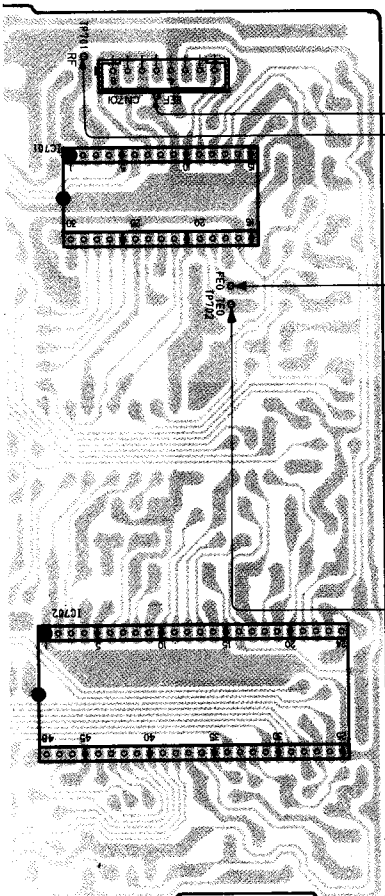
1. Connect the oscilloscope between IC701 pins ② and ⑨.
2. Put the set into test mode. (See page 14)
3. Press the ►► and ◄◄ keys to move the FOP to the center. (Move the FOP to the music area on the disc to enable easy visibility of the eye pattern.)
4. Insert disc (YEDS-18) and press ► key.
5. Adjust RV705 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
6. Release test mode after adjustment is completed.



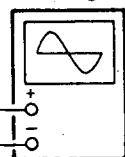
- RF signal reference waveform (eye pattern)

When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

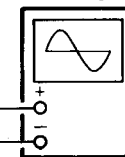
[CD MAIN BOARD] (conductor side)



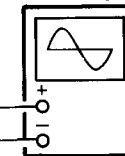
Focus Bias Adjustment oscilloscope (DC range)



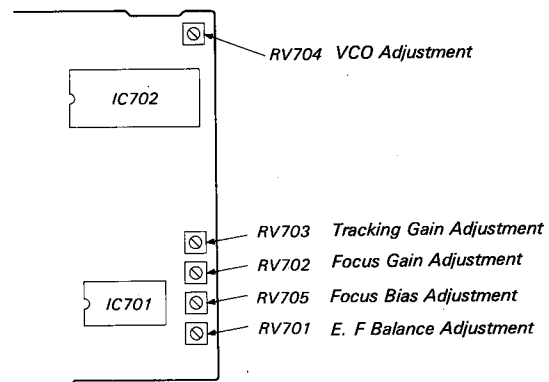
Focus Gain Adjustment oscilloscope (DC range)



E. F Balance Adjustment Tracking Gain Adjustment oscilloscope (DC range)



Adjustment Location : CD MAIN board (component side)



5-4. REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

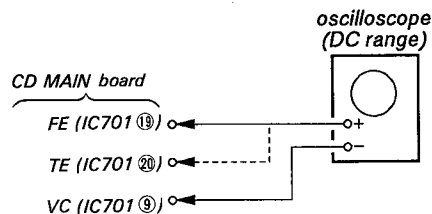
Symptoms	Gain	Focus
Tracking		
• The time until music starts becomes longer for STOP → ► PLAY or automatic selection (◀◀, ▶▶ buttons pressed). (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ► PLAY or automatic selection (◀◀, ▶▶ buttons pressed).	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More poise during 2-axis device operation.	high	high

The following is a simple adjustment method.

— Simple Adjustment —

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

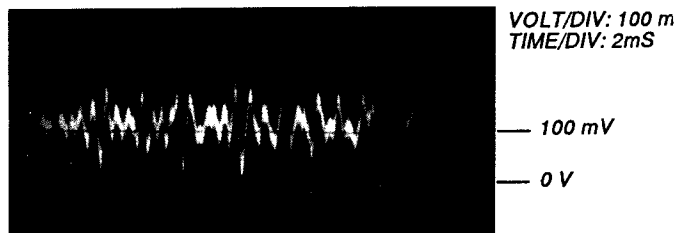
Procedure:



1. Keep the set horizontal.
(If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18) and press ► PLAY button.
3. Connect the oscilloscope between IC701 pins 19 and 9.
4. Adjustment RV 702 so that the waveform is as shown in the figure below. (focus gain adjustment)

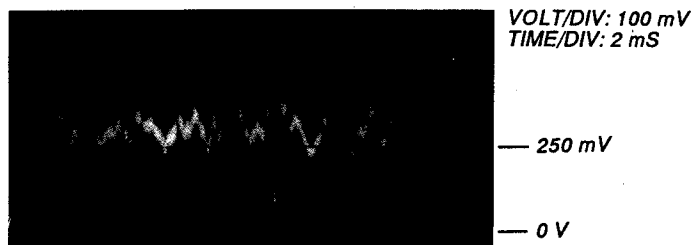
Adjustment Location: CD MAIN board (See page 15)

- Correct Example

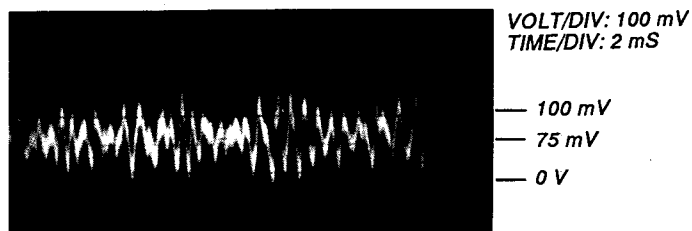


- Incorrect Examples (DC level changes more than on adjusted waveform)

low focus gain



high focus gain



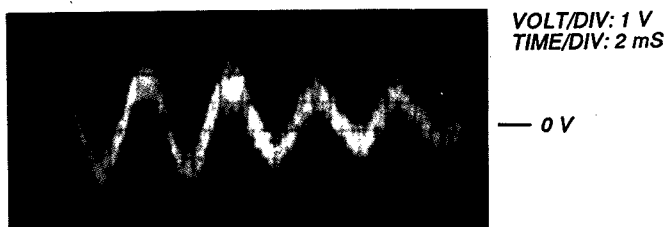
5. Connect the oscilloscope between IC701 pins ⑩ and ⑨.
6. Adjust RV703 so that the waveform is as shown in the figure below. (tracking gain adjustment)

Adjustment Location: CD MAIN board (See page 15)

- Correct Example



- Incorrect Examples (fundamental wave appears)
low tracking gain



- high tracking gain*
(higher fundamental wave than for low gain)



SECTION 7 EXPLODED VIEWS

NOTE:

- XX, -X mean standardized parts, so they may have some differences from the original one.

- Color Indication of Appearance Parts
Example:

KNOB, BALANCE(WHITE)...(RED)

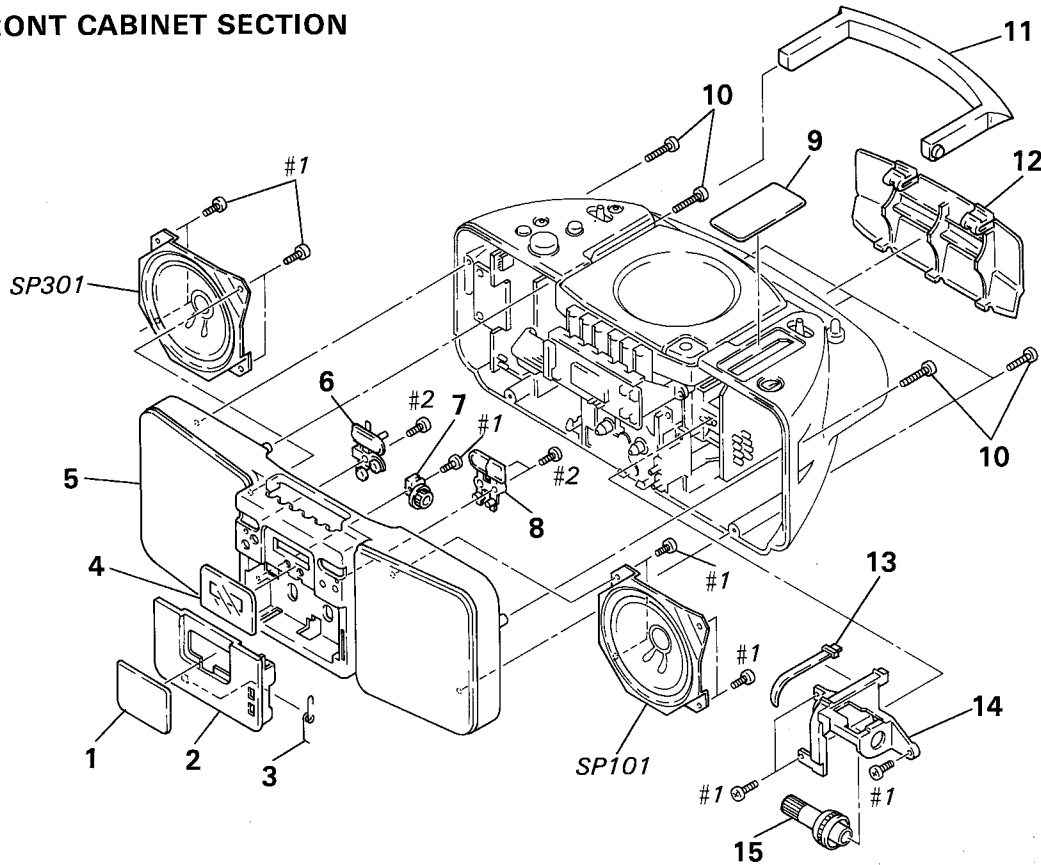
↑ ↑
Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-378-214-01	WINDOW (A/R), CASSETTE (CFD-30)	
1	3-378-219-01	WINDOW, CASSETTE (CFD-20)	
2	3-380-985-01	HOLDER, CASSETTE (WHITE) (CFD-20)	
2	3-380-985-11	HOLDER, CASSETTE (BLACK) (CFD-20)	
2	3-380-985-21	HOLDER, CASSETTE (BLUE) (CFD-20)	
2	3-381-132-01	HOLDER, CASSETTE (WHITE) (CFD-30)	
2	3-381-132-11	HOLDER, CASSETTE (BLACK) (CFD-30)	
2	3-381-132-21	HOLDER, CASSETTE (BLUE) (CFD-30)	
3	3-380-713-01	SPRING, CASSETTE	
4	3-378-212-01	WINDOW (A/R), LCD (CFD-30)	
4	3-378-218-01	WINDOW, LCD (CFD-20)	
5	X-3365-333-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-20)	
5	X-3365-334-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-20)	
5	X-3365-335-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-20)	
5	X-3365-356-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-30)	
5	X-3365-357-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-30)	
5	X-3365-358-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-30)	
6	3-380-095-01	KNOB, CD (A) (WHITE)	
6	3-380-095-11	KNOB, CD (A) (BLACK)	
6	3-380-095-21	KNOB, CD (A) (BLUE)	
7	3-380-711-01	DAMPER, CASSETTE HOLDER	

Ref. No.	Part No.	Description	Remark
8	3-380-096-01	KNOB, CD (B) (WHITE)	
8	3-380-096-11	KNOB, CD (B) (BLACK)	
8	3-380-096-21	KNOB, CD (B) (BLUE)	
9	3-378-215-01	WINDOW, DIAL (WHITE)	
9	3-378-215-11	WINDOW, DIAL (BLACK)	
9	3-378-215-21	WINDOW, DIAL (BLUE)	
10	3-380-715-01	SCREW (3X27.5) (WHITE)	
10	3-380-716-01	SCREW (3X28) (BLACK, BLUE)	
11	3-380-085-01	HANDLE (WHITE)	
11	3-380-085-11	HANDLE (BLACK)	
11	3-380-085-21	HANDLE (BLUE)	
12	3-380-103-31	COVER, BATTERY (WHITE)	
12	3-380-103-41	COVER, BATTERY (BLACK)	
12	3-380-103-51	COVER, BATTERY (BLUE)	
13	3-380-087-01	GEAR, POINTER	
14	3-380-093-01	CHASSIS, TUNING	
15	3-380-086-01	KNOB (TUNING) (WHITE)	
15	3-380-086-11	KNOB (TUNING) (BLACK)	
15	3-380-086-21	KNOB (TUNING) (BLUE)	
SP101	1-544-743-11	SPEAKER R	
SP301	1-544-743-11	SPEAKER L	

SECTION 7 EXPLODED VIEWS

NOTE:

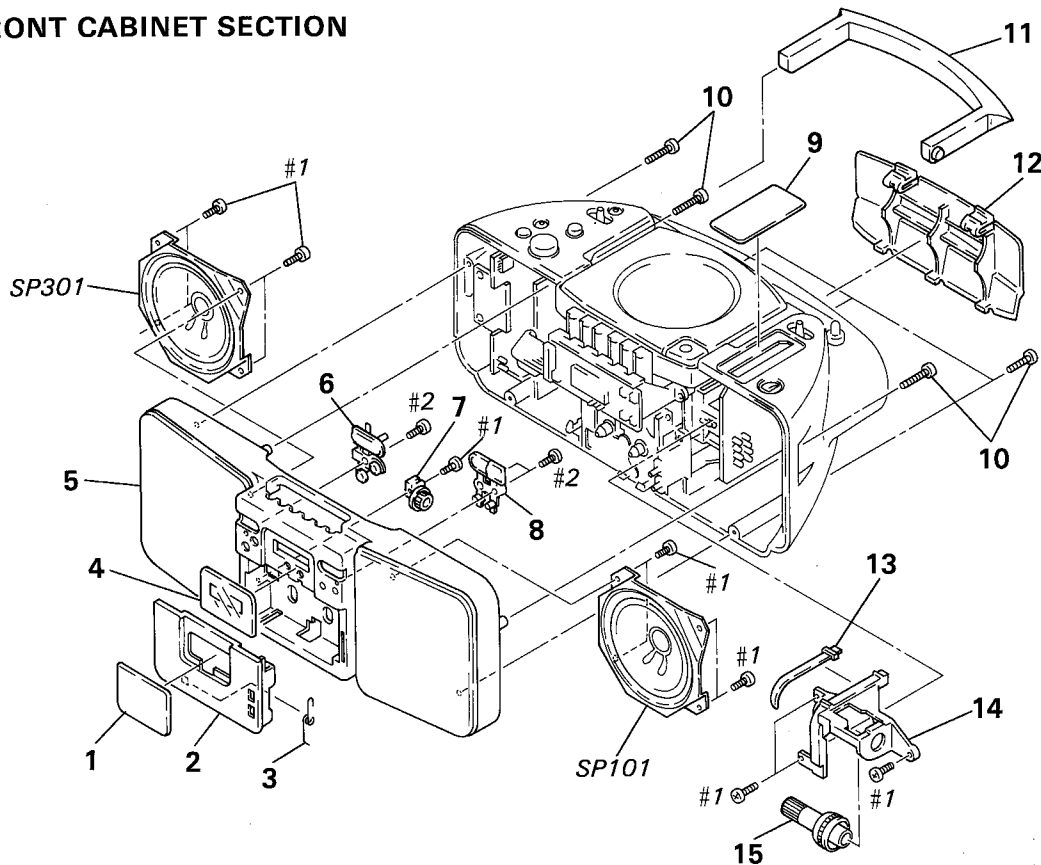
- XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
Example:
KNOB, BALANCE(WHITE)...(RED)
↑ ↑
Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

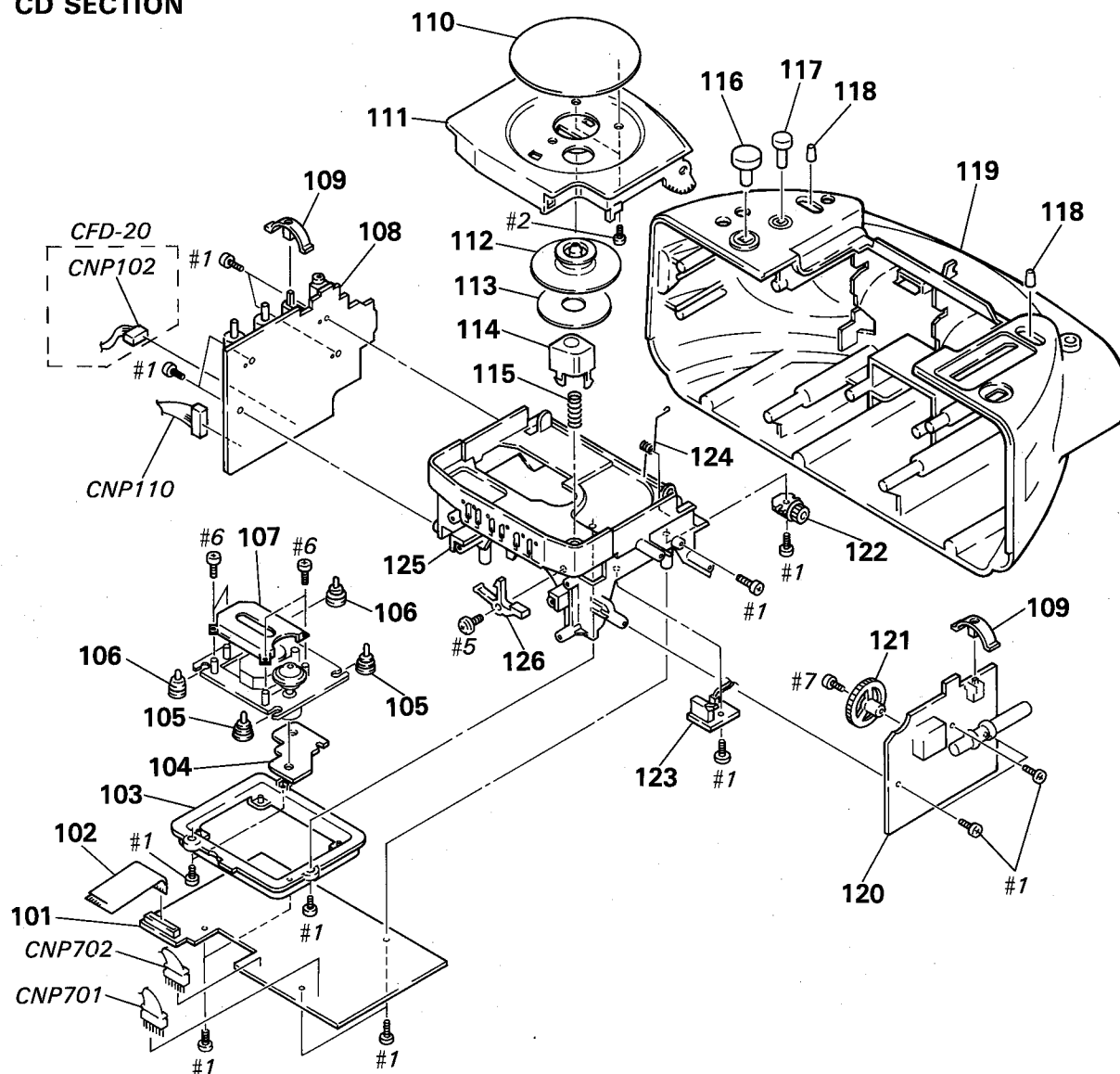
7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-378-214-01	WINDOW (A/R), CASSETTE (CFD-30)	
1	3-378-219-01	WINDOW, CASSETTE (CFD-20)	
2	3-380-985-01	HOLDER, CASSETTE (WHITE) (CFD-20)	
2	3-380-985-11	HOLDER, CASSETTE (BLACK) (CFD-20)	
2	3-380-985-21	HOLDER, CASSETTE (BLUE) (CFD-20)	
2	3-381-132-01	HOLDER, CASSETTE (WHITE) (CFD-30)	
2	3-381-132-11	HOLDER, CASSETTE (BLACK) (CFD-30)	
2	3-381-132-21	HOLDER, CASSETTE (BLUE) (CFD-30)	
3	3-380-713-01	SPRING, CASSETTE	
4	3-378-212-01	WINDOW (A/R), LCD (CFD-30)	
4	3-378-218-01	WINDOW, LCD (CFD-20)	
5	X-3365-333-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-20)	
5	X-3365-334-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-20)	
5	X-3365-335-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-20)	
5	X-3365-356-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-30)	
5	X-3365-357-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-30)	
5	X-3365-358-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-30)	
6	3-380-095-01	KNOB, CD (A) (WHITE)	
6	3-380-095-11	KNOB, CD (A) (BLACK)	
6	3-380-095-21	KNOB, CD (A) (BLUE)	
7	3-380-711-01	DAMPER, CASSETTE HOLDER	

Ref. No.	Part No.	Description	Remark
8	3-380-096-01	KNOB, CD (B) (WHITE)	
8	3-380-096-11	KNOB, CD (B) (BLACK)	
8	3-380-096-21	KNOB, CD (B) (BLUE)	
9	3-378-215-01	WINDOW, DIAL (WHITE)	
9	3-378-215-11	WINDOW, DIAL (BLACK)	
9	3-378-215-21	WINDOW, DIAL (BLUE)	
10	3-380-715-01	SCREW (3X27.5) (WHITE)	
10	3-380-716-01	SCREW (3X28) (BLACK, BLUE)	
11	3-380-085-01	HANDLE (WHITE)	
11	3-380-085-11	HANDLE (BLACK)	
11	3-380-085-21	HANDLE (BLUE)	
12	3-380-103-31	COVER, BATTERY (WHITE)	
12	3-380-103-41	COVER, BATTERY (BLACK)	
12	3-380-103-51	COVER, BATTERY (BLUE)	
13	3-380-087-01	GEAR, POINTER	
14	3-380-093-01	CHASSIS, TUNING	
15	3-380-086-01	KNOB (TUNING) (WHITE)	
15	3-380-086-11	KNOB (TUNING) (BLACK)	
15	3-380-086-21	KNOB (TUNING) (BLUE)	
SP101	1-544-743-11	SPEAKER R	
SP301	1-544-743-11	SPEAKER L	

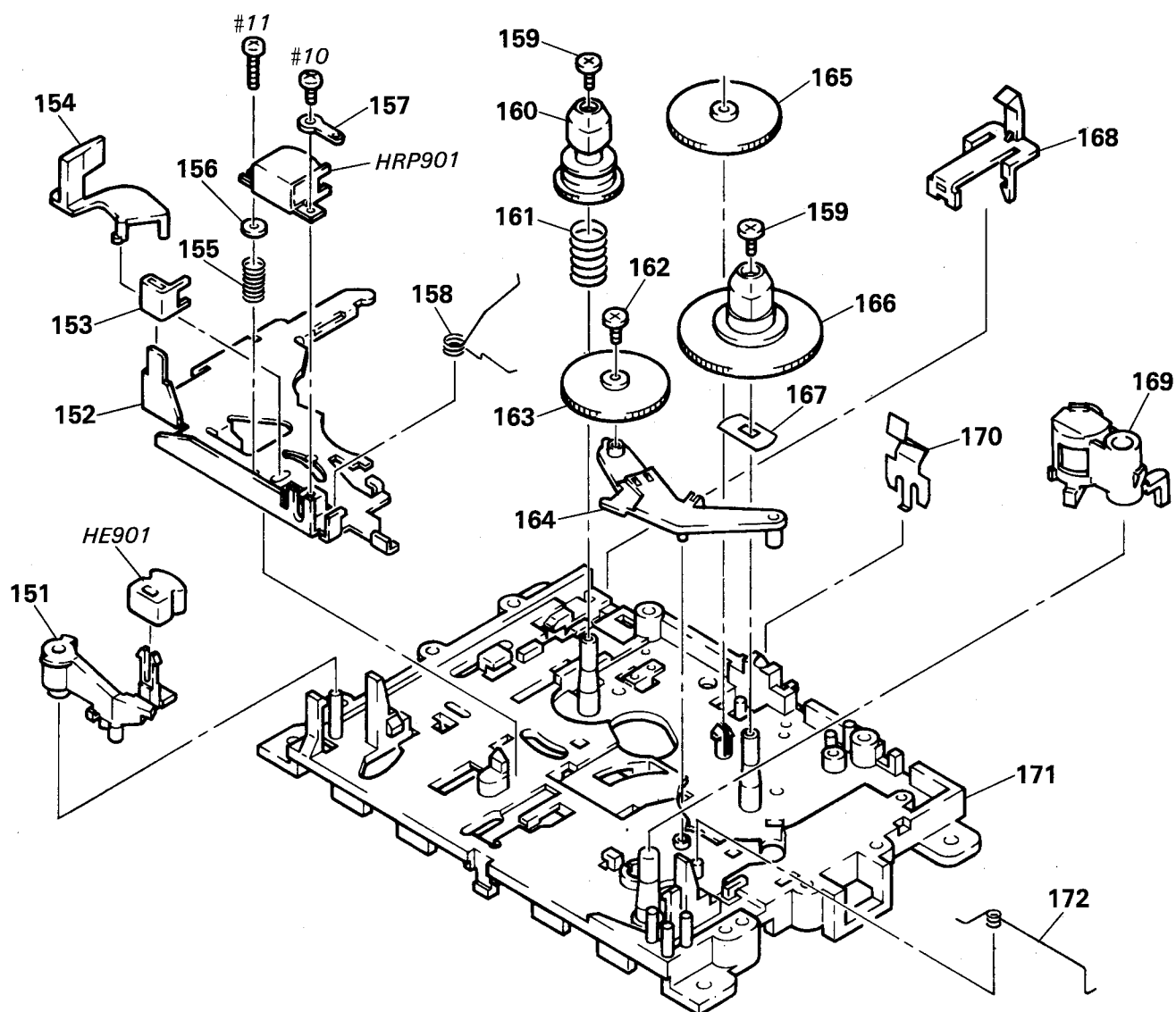
7-3. CD SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-3275-519-A	CD MAIN BOARD, COMPLETE	
102	1-696-020-11	CABLE, FLAT	
* 103	3-380-080-01	HOLDER, CD	
104	1-636-789-13	MOTOR BOARD	
105	3-380-720-01	CUSHIONM CD	
* 106	3-381-610-01	CUSHION, CD (BLK)	
* 107	3-380-724-01	COVER, MD, CD	
* 108	A-3262-671-A	AUDIO BOARD, COMPLETE (CFD-30)	
* 108	A-3262-694-A	AUDIO BOARD, COMPLETE (CFD-20)	
109	3-380-070-01	KNOB, LEVER (WHITE)	
109	3-380-070-11	KNOB, LEVER (BLACK)	
109	3-380-070-21	KNOB, LEVER (BLUE)	
110	3-380-078-01	WINDOW, CD	
111	3-380-097-31	COVER, CD (WHITE)	
111	3-380-097-41	COVER, CD (BLACK)	
111	3-380-097-51	COVER, CD (BLUE)	
112	3-380-721-01	CHUCK PLATE	
* 113	3-381-611-01	SHEET, CHUCK HOLDER	
114	3-380-074-01	KNOB, CD EJECT (WHITE)	
114	3-380-074-11	KNOB, CD EJECT (BLACK)	
114	3-380-074-21	KNOB, CD EJECT (BLUE)	
115	3-380-719-01	SPRING, CD EJECT	
116	3-380-064-01	KNOB, VOLUME (WHITE)	
116	3-380-064-11	KNOB, VOLUME (BLACK)	

Ref. No.	Part No.	Description	Remark
116	3-380-064-21	KNOB, VOLUME (BLUE)	
117	3-380-063-01	KNOB, TONE (WHITE)	
117	3-380-063-11	KNOB, TONE (BLACK)	
117	3-380-063-21	KNOB, TONE (BLUE)	
118	3-380-071-01	KNOB, LEVER (TOP) (WHITE)	
118	3-380-071-11	KNOB, LEVER (TOP) (BLACK)	
118	3-380-071-21	KNOB, LEVER (TOP) (BLUE)	
119	3-380-988-31	CABINET (REAR) (WHITE)	
119	3-380-988-41	CABINET (REAR) (BLACK)	
119	3-380-988-51	CABINET (REAR) (BLUE)	
* 120	A-3262-693-A	TUNER BOARD, COMPLETE	
121	3-380-075-01	PULLEY GEAR	
122	3-380-722-01	DAMPER, CD	
* 123	1-644-514-11	CD LEAF SW BOARD	
124	3-380-714-01	SPRING, CD COVER	
125	3-380-725-01	CHASSIS, CD (WHITE)	
125	3-380-725-11	CHASSIS, CD (BLACK)	
125	3-380-725-21	CHASSIS, CD (BLUE)	
126	3-380-083-01	LEVER, CD EJECT	
* CNP102	1-695-174-11	CONNECTOR 4P (CFD-20)	
* CNP110	1-695-149-11	CONNECTOR 6P (CFD-30)	
* CNP110	1-695-176-11	CONNECTOR 4P (CFD-20)	
* CNP702	1-695-150-11	CONNECTOR 8P	
* CNP701	1-695-170-11	CONNECTOR 8P	

7-4. MECHANISM DECK SECTION-1 (CFD-20)

(MF-CFD-20
: YM27X-407)

Ref. No.	Part No.	Description
----------	----------	-------------

151	3-391-055-01	E HEAD ARM
* 152	4-895-015-01	HEAD BASE
153	4-895-016-01	TAPE GUIDE
154	4-894-956-01	TAPE SENSOR
155	4-894-955-01	C SPRING
156	3-390-823-01	WASHER, F
157	3-390-817-01	LUG
158	3-391-078-01	PINCH SPRING
159	3-390-803-01	BUSHING (D)
160	4-894-953-01	S REEL
161	4-894-954-01	C SPRING
162	4-894-960-01	BUSH

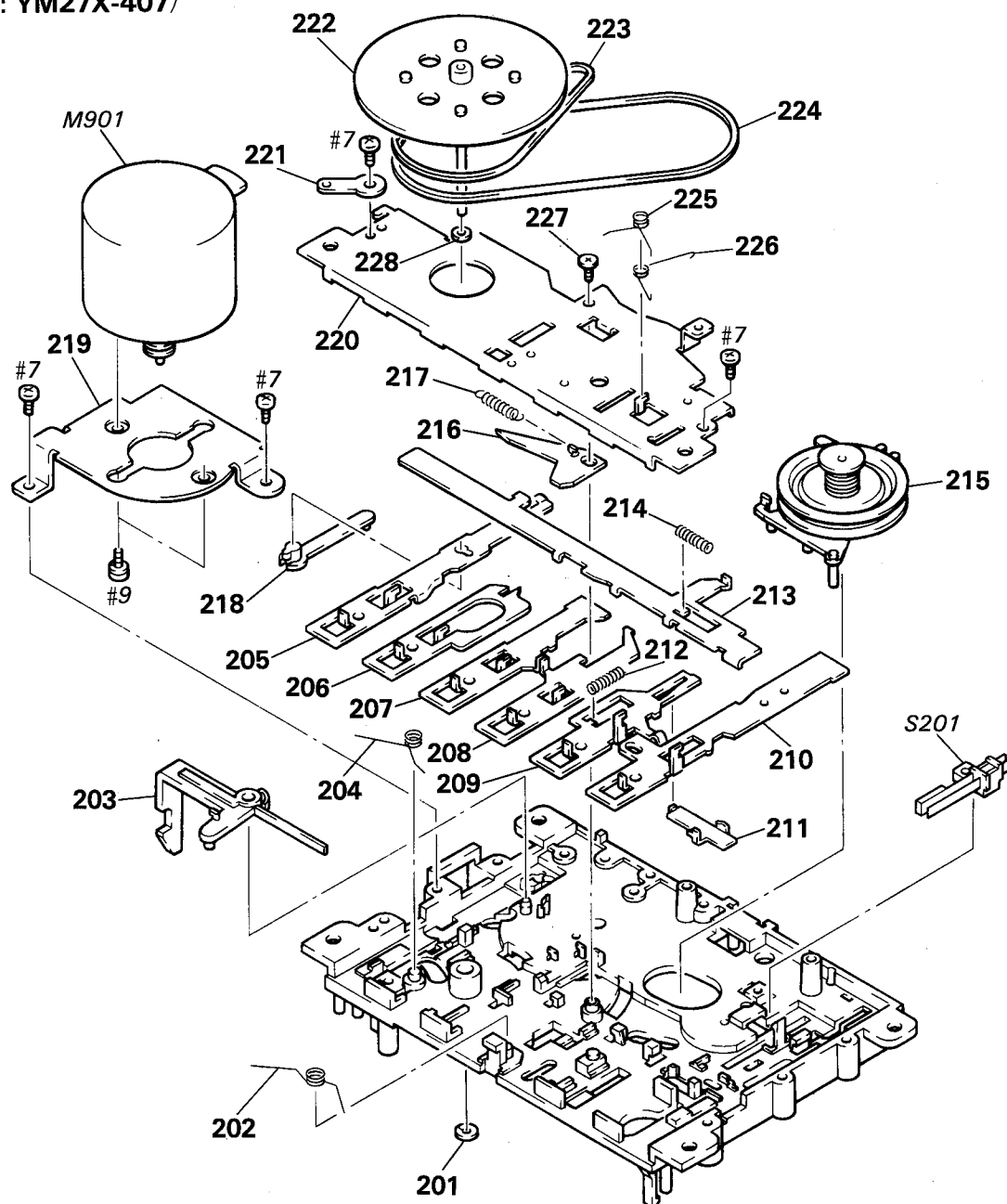
Remark

Ref. No.	Part No.	Description
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163	4-894-961-01	IDLER GEAR
164	4-894-962-01	IDLER ARM
165	4-894-964-01	F GEAR
166	X-3391-004-1	T REEL ASSY
* 167	3-390-838-01	SHAFT (W), BUTTON
168	4-894-958-01	INTERLOCK ARM
169	3-390-805-01	PINCH ARM ASSY
170	4-894-966-01	SPRING
171	4-894-968-01	CHASSIS ASSY
172	4-894-967-01	SPRING
HE901	1-543-558-11	ERASE HEAD
HRP901	1-543-424-21	REC/PB HEAD

Remark

7-5. MECHANISM DECK SECTION-2 (CFD-20)

(MF-CFD-20
: YM27X-407)

Ref. No.	Part No.	Description
----------	----------	-------------

201	4-894-969-01	N WASHER
202	4-894-999-01	SPRING
203	4-894-980-01	EJECT ARM
204	4-894-989-01	SPRING
* 205	4-894-986-01	PAUSE LEVER

* 206	4-894-987-01	S. E LEVER
* 207	3-391-052-01	FF LEVER
* 208	3-391-051-01	REW LEVER
* 209	3-391-053-01	PLAY LEVER
210	4-894-994-01	REC LEVER

211	3-390-811-01	LEVER, REC STOP
212	3-390-827-01	SPRING
* 213	4-894-984-01	FUNCTION LEVER
214	4-894-983-01	C SPRING
215	X-3391-003-1	POWER ARM ASSY

Remark

Ref. No.	Part No.	Description
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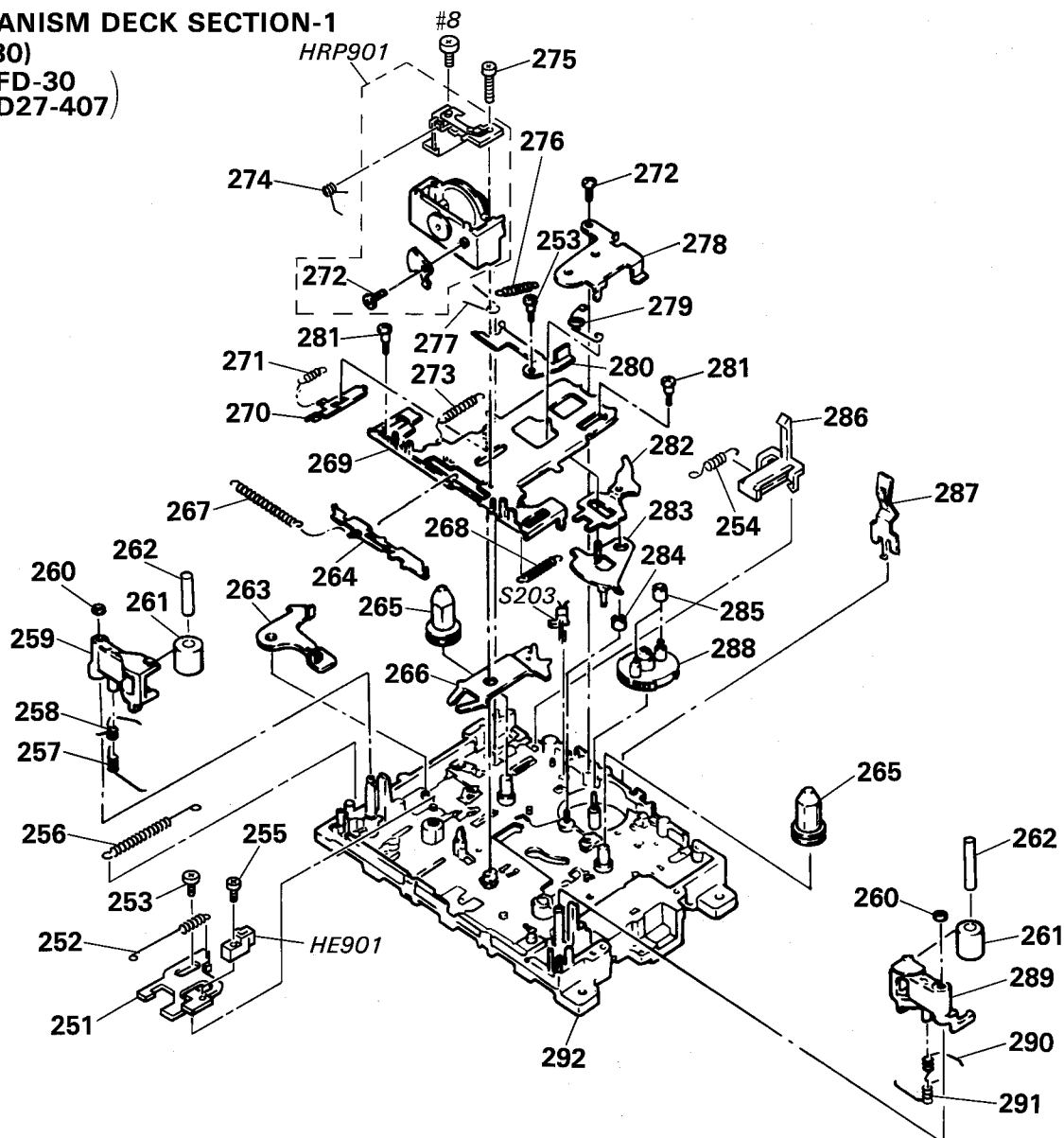
216	4-894-982-01	S ARM
217	3-390-809-01	SPRING
218	4-894-985-01	PAUSE ARM
* 219	3-391-071-01	PLATE, MOTOR
* 220	4-894-977-01	BACK PLATE
221	3-391-047-01	EARTH LUG
222	X-3391-002-1	FLYWHEEL ASSY
223	3-395-914-01	BELT, SQUARE
224	3-561-892-00	BELT, SQUARE
225	4-894-978-01	SPRING

226	3-369-935-01	SPRING, REC
227	3-390-822-01	BUSHING (C)
228	4-894-976-01	P WASHER
M901	3-379-148-01	MOTOR ASSY (REEL/CAPSTAN)
S201	1-572-394-11	SWITCH, LEAF (MAIN)

Remark

7-6. MECHANISM DECK SECTION-1

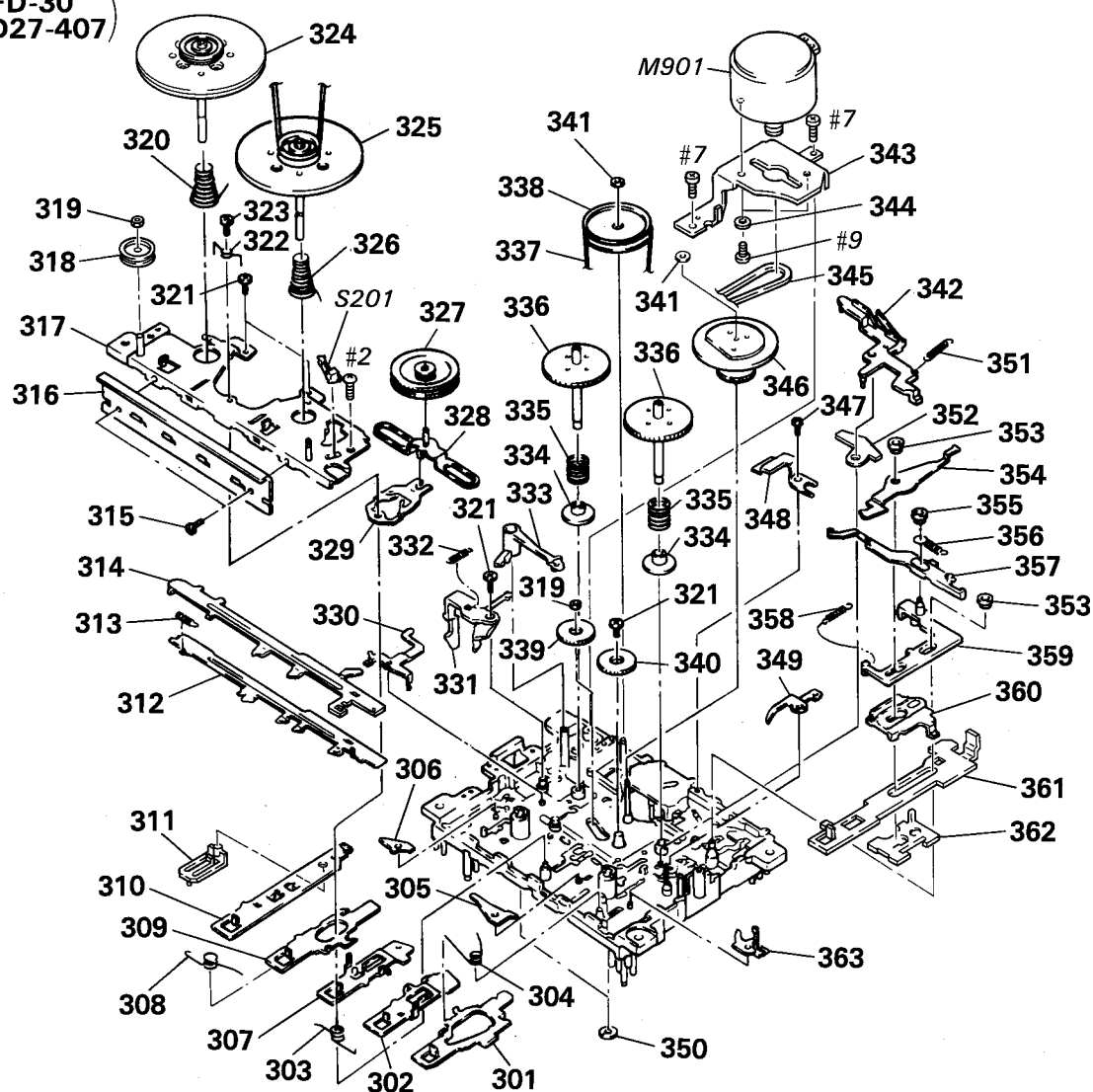
(CFD-30)

(MF-CFD-30
:LRD27-407)

Ref. No.	Part No.	Description	Remark
* 251	3-379-191-01	HOLDER ERASE	
252	3-379-193-01	SPRING	
253	3-396-808-01	SCREW	
254	3-382-201-01	SPRING	
255	3-379-190-01	SCREW	
256	3-379-196-01	SPRING	
257	3-393-152-01	SPRING	
258	3-393-153-01	SPRING	
259	3-393-112-01	ARM PINCH-L	
260	3-393-227-01	WASHER	
261	3-393-149-01	ROLLER PINCH	
262	3-393-113-01	SHAFT	
* 263	3-369-951-01	PLATE, PROTECT REC	
* 264	3-369-937-01	PLATE ASSY, SLIDE	
265	3-391-086-01	CAP REL	
* 266	3-391-090-01	PLATE REVERSE-C	
267	3-393-106-01	SPRING	
268	3-391-095-01	SPRING	
269	X-3391-009-1	ASSY HEAD CHASSIS	
* 270	3-369-941-01	LEVER, GEAR STOP	
271	3-369-942-01	SPRING	
272	4-894-960-01	BUSH	
273	3-391-096-01	SPRING	

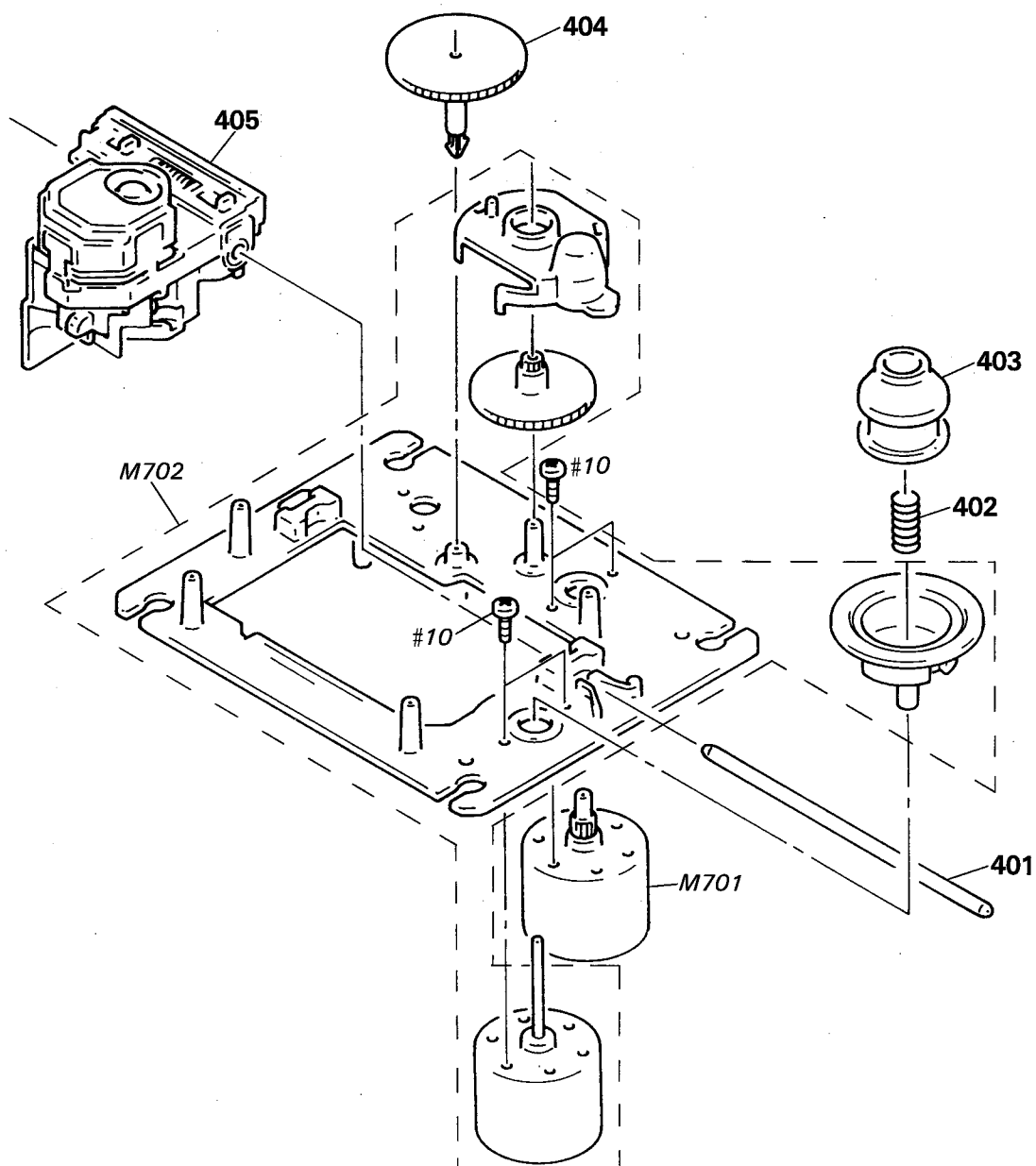
Ref. No.	Part No.	Description	Remark
274	3-393-105-01	SPRING	
275	3-393-218-01	SCREW	
276	3-391-093-01	SPRING	
277	3-391-094-01	SPRING	
278	3-393-109-01	HOLDER GEAR	
279	3-363-223-01	SPRING	
* 280	3-391-092-01	PLATE MO JOINT	
281	3-393-221-01	SCREW	
* 282	3-391-091-01	PLATE REVERSE-D	
283	X-3391-008-1	ASSY IDLER PLATE	
284	3-369-952-01	COLLAR	
285	3-391-089-01	COLLER B	
286	4-894-958-01	INTERLOCK ARM	
287	3-393-209-01	PLATE SPRING	
288	X-3391-007-1	ASSY REVERSE GEAR C	
289	3-393-111-01	ARM PINCH-R	
290	3-393-151-01	SPRING	
291	3-393-150-01	SPRING	
* 292	X-3365-057-1	ASSY MECHA CHASSIS	
HE901	3-379-192-01	ERASE HEAD ASSY	
HRP901	X-3365-055-1	REC/PB HEAD ASSY	
S203	1-571-745-11	SWITCH, LEAF (FWD/RVS)	

7-7. MECHANISM DECK SECTION-2 (CFD-30)

(MF-CFD-30)
(LRD27-407)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 301	3-393-171-01	LEVER PLAY B		334	3-391-088-01	REEL BUSH-D	
* 302	3-369-944-01	LEVER, REW		335	3-391-087-01	SPRING	
303	3-393-165-01	SPRING		336	3-391-085-01	GEAR RELL	
304	3-393-167-01	SPRING		337	3-681-447-00	BELT	
305	3-393-170-01	ARM CUE STOP		338	3-393-191-01	PULLY DRIVE	
306	3-393-158-01	ARM PAUSE		339	3-393-154-01	GEAR IDLER	
* 307	3-369-943-01	LEVER, FF		340	3-391-084-01	GEAR FWD	
308	3-393-159-01	SPRING		341	3-393-226-01	WASHER	
309	3-393-160-01	LEVER STOP		* 342	3-393-182-01	LEVER DR	
310	3-393-156-01	LEVER PAUSE		* 343	3-379-180-01	HOLDER MOTOR	
311	3-393-157-01	ARM PAUSE STOP		344	3-379-181-01	WASHER NYLON	
* 312	3-369-945-01	PLATE, FUNCTION (A)		345	3-379-150-01	BELT	
313	3-393-175-01	SPRING		346	X-3391-015-1	TENTION ASSY	
* 314	3-379-176-01	PLATE FUNCTION-B		347	3-396-791-01	SCREW	
315	3-396-801-01	SCREW		348	3-396-790-01	PLATE SPRING DR	
* 316	3-396-800-01	HOLDER		349	3-393-169-01	PLATE SWITCH-C	
* 317	X-3391-013-1	ASSY LEVER HOLDER C		350	4-894-969-01	N WASHER	
* 318	3-369-948-01	PULLEY		351	3-393-177-01	SPRING	
319	3-393-225-01	WASHER		* 352	3-379-195-01	ARM REC	
320	3-393-206-01	SPRING		353	3-393-189-01	BUSH	
321	4-894-960-01	BUSH		* 354	3-379-179-01	LEVER CANCEL	
322	3-382-202-01	SPRING		355	3-379-197-01	BUSH	
323	3-393-221-01	SCREW		356	3-379-178-01	SPRING	
324	X-3365-056-1	ASSY FLYWHEEL F		* 357	3-393-185-01	LEVER SENSOR-B	
325	X-3391-018-1	ASSY FLYWHEEL R		358	3-393-187-01	SPRING	
326	3-393-205-01	SPRING		* 359	3-393-184-01	LEVER SENSOR	
327	X-3391-016-1	ASSY FF TENTION A		* 360	3-393-181-01	LEVER MO	
328	X-3391-012-1	ASSY FF IDLER PLATE		* 361	3-379-194-01	LEVER REC	
329	3-393-176-01	LEVER FF IDLER		* 362	3-393-180-01	PLATE MO	
330	3-393-155-01	PLATE SENSOR STOP		363	3-393-168-01	PLATE SWITCH-A	
331	3-396-773-01	LEVER EJECT		M901	3-379-149-01	MOTOR ASSY (REEL/CAPSTAN)	
332	3-393-179-01	SPRING		S201	1-571-556-11	SWITCH, LEAF (MAIN)	
333	3-393-190-01	ARM SENSOR STOP					

7-8. OPTICAL PICKUP BLOCK (KSM-2101BAM)



The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	4-917-565-01	SHAFT (K), SLED		 405	8-848-137-11	PICKUP, OPTICAL KSS-210B	
402	2-625-191-01	SPRING (K), COMPRESSION		M701	X-2625-132-1	MOTOR GEAR ASSY (MB) (SLED)	
403	2-625-186-01	RING (C) (K), CENTER		M702	X-2625-133-2	MOTOR ASSY, SPINDLE (TT CHASSIS ASSY (MB))	
404	2-625-188-02	GEAR (A) (K)					

SECTION 8

ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example:uA...: μ A.. uPA...: μ PA..uPB...: μ PB.. uPC...: μ PC.. uPD...: μ PD..

• CAPACITORS

uF: μ F

• COILS

uH: μ H

- E=E94: Taiwan

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
*	A-3275-525-A	AUDIO BOARD, COMPLETE (CFD-20)				C212	1-130-471-00	MYLAR	0.001uF	5%	50V
*	A-3275-524-A	AUDIO BOARD, COMPLETE (CFD-30)				C213	1-124-443-00	ELECT	100uF	20%	10V
*****						C214	1-162-286-31	CERAMIC	220PF	10%	50V
< CAPACITOR >						C215	1-162-290-31	CERAMIC	470PF	10%	50V
C101	1-124-126-00	ELECT	47uF	20%	10V	C216	1-130-471-00	MYLAR	0.001uF	5%	50V
C102	1-162-291-31	CERAMIC	560PF	10%	50V	C217	1-126-233-11	ELECT	22uF	20%	50V
C103	1-130-488-00	MYLAR	0.027uF	5%	50V	C219	1-124-443-00	ELECT	100uF	20%	10V
C104	1-162-291-31	CERAMIC	560PF	10%	50V	C220	1-123-382-00	ELECT	3.3uF	20%	100V
C105	1-130-473-00	MYLAR	0.0015uF	5%	50V	C221	1-126-233-11	ELECT	22uF	20%	50V
C106	1-124-925-11	ELECT	2.2uF	20%	100V	C222	1-126-233-11	ELECT	22uF	20%	50V
C107	1-124-903-11	ELECT	1uF	20%	50V	C226	1-124-907-11	ELECT	10uF	20%	50V
C108	1-162-292-31	CERAMIC	680PF	10%	50V	C230	1-124-443-00	ELECT	100uF	20%	10V
C109	1-130-486-00	MYLAR	0.018uF	10%	50V	C247	1-126-157-11	ELECT	10uF	20%	16V
C110	1-162-215-31	CERAMIC	47PF	5%	50V	C255	1-161-379-00	CERAMIC	0.01uF	20%	25V
C114	1-162-282-31	CERAMIC	100PF	10%	50V	C301	1-124-126-00	ELECT	47uF	20%	10V
C117	1-162-292-31	CERAMIC	680PF	10%	50V	C302	1-162-291-31	CERAMIC	560PF	10%	50V
C121	1-162-282-31	CERAMIC	100PF	10%	50V	C303	1-130-488-00	MYLAR	0.027uF	5%	50V
C122	1-124-903-11	ELECT	1uF	20%	50V	C304	1-162-291-31	CERAMIC	560PF	10%	50V
C123	1-124-903-11	ELECT	1uF	20%	50V	C305	1-130-473-00	MYLAR	0.0015uF	5%	50V
C124	1-162-282-31	CERAMIC	100PF	10%	50V	C306	1-124-925-11	ELECT	2.2uF	20%	100V
C125	1-124-903-11	ELECT	1uF	20%	50V	C307	1-124-903-11	ELECT	1uF	20%	50V
C126	1-124-903-11	ELECT	1uF	20%	50V	C308	1-162-292-31	CERAMIC	680PF	10%	50V
C139	1-162-286-31	CERAMIC	220PF	10%	50V	C309	1-130-486-00	MYLAR	0.018uF	10%	50V
C201	1-162-282-31	CERAMIC	100PF	10%	50V	C310	1-162-215-31	CERAMIC	47PF	5%	50V
C202	1-124-903-11	ELECT	1uF	20%	50V	C314	1-162-282-31	CERAMIC	100PF	10%	50V
C203	1-126-157-11	ELECT	10uF	20%	16V	C317	1-162-292-31	CERAMIC	680PF	10%	50V
C205	1-124-927-11	ELECT	4.7uF	20%	100V	C321	1-162-282-31	CERAMIC	100PF	10%	50V
C206	1-124-907-11	ELECT	10uF	20%	50V	C322	1-124-903-11	ELECT	1uF	20%	50V
C207	1-124-907-11	ELECT	10uF	20%	50V	C323	1-124-903-11	ELECT	1uF	20%	50V
C208	1-124-443-00	ELECT	100uF	20%	10V	C324	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-124-126-00	ELECT	47uF	20%	10V	C325	1-124-903-11	ELECT	1uF	20%	50V
C210	1-161-377-00	CERAMIC	0.0047uF	30%	16V	C326	1-124-903-11	ELECT	1uF	20%	50V
C211	1-130-487-00	MYLAR	0.022uF	5%	50V	C339	1-162-286-31	CERAMIC	220PF	10%	50V

AUDIO

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
* CN101	1-580-047-11	CONNECTOR 3P	
* CN102	1-580-048-11	CONNECTOR 4P (CFD-20)	
* CN102	1-573-597-11	CONNECTOR 3P (CFD-30)	
* CN103	1-695-145-11	CONNECTOR 5P	
* CN104	1-695-144-11	CONNECTOR 13P	
* CN106	1-695-055-11	HOUSING, CONNECTOR 6P	
* CN107	1-695-055-11	HOUSING, CONNECTOR 6P	
* CN109	1-695-146-11	CONNECTOR 3P	
* CN110	1-580-048-11	CONNECTOR 4P (CFD-20)	
* CN110	1-695-139-11	CONNECTOR 6P (CFD-30)	
< DIODE >			
D205	8-719-200-02	DIODE 10E-2	
D206	8-719-107-94	DIODE 1SS202-1	
D207	8-719-107-94	DIODE 1SS202-1	
D208	8-719-107-94	DIODE 1SS202-1	
< IC >			
IC201	8-759-231-22	IC TA7417AP	
IC202	8-759-106-41	IC uPC4570C	
IC203	8-759-076-52	IC GL4558	
< JACK >			
J203	1-563-330-11	JACK (MIX MIC)	
< COIL >			
L201	1-408-557-11	INDUCTOR 3.3uH	
L202	1-408-569-11	INDUCTOR 3.3uH	
< TRANSISTOR >			
Q101	8-729-016-64	TRANSISTOR KTD1302	
Q202	8-729-900-80	TRANSISTOR DTC114ES	
Q203	8-729-900-61	TRANSISTOR DTA114ES	
Q204	8-729-900-80	TRANSISTOR DTC114ES	
Q205	8-729-900-80	TRANSISTOR DTC114ES	
Q206	8-729-900-80	TRANSISTOR DTC114ES	
Q207	8-729-900-61	TRANSISTOR DTA114ES	
Q208	8-729-900-80	TRANSISTOR DTC114ES	
Q209	8-729-231-83	TRANSISTOR 2SC1959	
Q301	8-729-016-64	TRANSISTOR KTD1302	
< RESISTOR >			
R101	1-249-406-11	CARBON 120 5% 1/4W	
R102	1-249-426-11	CARBON 5.6K 5% 1/4W	
R103	1-249-440-11	CARBON 82K 5% 1/4W	
R104	1-249-432-11	CARBON 18K 5% 1/4W	
R105	1-249-427-11	CARBON 6.8K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R106	1-249-434-11	CARBON 27K 5% 1/4W	
R108	1-249-441-11	CARBON 100K 5% 1/4W	
R109	1-249-429-11	CARBON 10K 5% 1/4W	
R110	1-249-434-11	CARBON 27K 5% 1/4W	
R112	1-249-429-11	CARBON 10K 5% 1/4W	
R113	1-249-414-11	CARBON 560 5% 1/4W	
R120	1-249-421-11	CARBON 2.2K 5% 1/4W	
R121	1-249-436-11	CARBON 39K 5% 1/4W	
R122	1-249-426-11	CARBON 5.6K 5% 1/4W	
R123	1-249-425-11	CARBON 4.7K 5% 1/4W	
R124	1-249-435-11	CARBON 33K 5% 1/4W	
R125	1-249-437-11	CARBON 47K 5% 1/4W	
R126	1-249-419-11	CARBON 1.5K 5% 1/4W	
R127	1-249-425-11	CARBON 4.7K 5% 1/4W	
R201	1-249-437-11	CARBON 47K 5% 1/4W	
R202	1-249-437-11	CARBON 47K 5% 1/4W	
R212	1-249-422-11	CARBON 2.7K 5% 1/4W	
R214	1-249-429-11	CARBON 10K 5% 1/4W	
R215	1-249-425-11	CARBON 4.7K 5% 1/4W	
R216	1-249-432-11	CARBON 18K 5% 1/4W	
R217	1-259-880-11	CARBON 2.2M 5% 1/6W	
R218	1-249-429-11	CARBON 10K 5% 1/4W	
R219	1-249-407-11	CARBON 150 5% 1/4W	
R220	1-249-393-11	CARBON 10 5% 1/4W	
R221	1-249-429-11	CARBON 10K 5% 1/4W	
R222	1-249-411-11	CARBON 330 5% 1/4W	
R223	1-249-425-11	CARBON 4.7K 5% 1/4W	
R225	1-249-417-11	CARBON 1K 5% 1/4W	
R247	1-249-437-11	CARBON 47K 5% 1/4W	
R248	1-249-437-11	CARBON 47K 5% 1/4W	
R301	1-249-406-11	CARBON 120 5% 1/4W	
R302	1-249-426-11	CARBON 5.6K 5% 1/4W	
R303	1-249-440-11	CARBON 82K 5% 1/4W	
R304	1-249-432-11	CARBON 18K 5% 1/4W	
R305	1-249-427-11	CARBON 6.8K 5% 1/4W	
R306	1-249-434-11	CARBON 27K 5% 1/4W	
R308	1-249-441-11	CARBON 100K 5% 1/4W	
R309	1-249-429-11	CARBON 10K 5% 1/4W	
R310	1-249-434-11	CARBON 27K 5% 1/4W	
R312	1-249-429-11	CARBON 10K 5% 1/4W	
R313	1-249-414-11	CARBON 560 5% 1/4W	
R320	1-249-421-11	CARBON 2.2K 5% 1/4W	
R321	1-249-436-11	CARBON 39K 5% 1/4W	
R322	1-249-426-11	CARBON 5.6K 5% 1/4W	
R323	1-249-425-11	CARBON 4.7K 5% 1/4W	
R324	1-249-435-11	CARBON 33K 5% 1/4W	
R325	1-249-437-11	CARBON 47K 5% 1/4W	
R326	1-249-419-11	CARBON 1.5K 5% 1/4W	
R327	1-249-425-11	CARBON 4.7K 5% 1/4W	

AUDIO

BATTERY

CD CONTROL

CD LEAF

CD MAIN

Ref.No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV201	1-241-927-11	RES, VAR, CARBON 50K/50K (VOLUME)	
RV202	1-241-928-11	RES, VAR, CARBON 50K/50K (TONE)	
< SWITCH >			
S101	1-692-173-11	SWITCH, LEVER (FUNCTION)	
S103	1-692-170-11	SWITCH, SLIDE (ISS/FM MODE)	
< TRANSFORMER >			
T101	1-433-399-11	COIL, BIAS OSCILLATION	

	1-644-027-11	BATTERY BOARD	

	3-380-067-01	SPRING, BATT (-)	
< CONNECTOR >			
* CN910	1-695-151-11	CONNECTOR 2P	

*	1-644-032-11	CD CONTROL BOARD	

< CONNECTOR >			
* CN807	1-695-058-11	CONNECTOR 29P	
< DIODE >			
D801	8-719-918-76	LED GL-3PR9 (REV) (CFD-30)	
D802	8-719-918-76	LED GL-3PR9 (FWD)	
D803	8-719-107-94	DIODE 1SS202-1 (CFD-30)	
< LIQUID CRYSTAL DISPLAY >			
LCD1	1-808-930-11	DISPLAY PANEL, LIQUID CRYSTAL	
< RESISTOR >			
R801	1-249-416-11	CARBON 820 5% 1/4W (CFD-30)	
R802	1-249-416-11	CARBON 820 5% 1/4W	
R803	1-249-410-11	CARBON 270 5% 1/4W	
R804	1-249-410-11	CARBON 270 5% 1/4W (CFD-30)	
< SWITCH >			
S801	1-692-178-11	SWITCH, TACT (PLAY)	
S802	1-692-178-11	SWITCH, TACT (STOP)	
S803	1-692-178-11	SWITCH, TACT (REW)	
S804	1-692-178-11	SWITCH, TACT (FF)	

Ref.No.	Part No.	Description	Remark
S805	1-692-178-11	SWITCH, TACT (PAUSE)	
S806	1-692-178-11	SWITCH, TACT (PLAY MODE)	
S807	1-692-178-11	SWITCH, TACT (REMAIN/ENTER)	

	1-644-031-11	CD LEAF SW BOARD	

< CONNECTOR >			
CN804	1-695-143-11	CONNECTOR 2P	
< SWITCH >			
S801	1-692-171-11	SWITCH (DOOR)	

*	A-3275-519-A	CD MAIN BOARD, COMPLETE	

< CAPACITOR >			
C700	1-162-197-31	CERAMIC 6.8PF 10% 50V	
C701	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C702	1-124-034-51	ELECT 33uF 20% 16V	
C703	1-124-443-00	ELECT 100uF 20% 10V	
C704	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C705	1-130-489-00	MYLAR 0.033uF 5% 50V	
C706	1-124-443-00	ELECT 100uF 20% 10V	
C707	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C708	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C709	1-130-489-00	MYLAR 0.033uF 5% 50V	
C710	1-161-377-00	CERAMIC 0.0047uF 30% 16V	
C711	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C712	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C713	1-130-491-00	MYLAR 0.047uF 5% 50V	
C714	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C715	1-161-329-00	CERAMIC 0.0068uF 30% 16V	
C716	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C717	1-126-157-11	ELECT 10uF 20% 16V	
C718	1-130-493-00	MYLAR 0.068uF 5% 50V	
C719	1-162-284-31	CERAMIC 150PF 10% 50V	
C720	1-162-215-31	CERAMIC 47PF 5% 50V	
C722	1-124-034-51	ELECT 33uF 20% 16V	
C723	1-130-495-00	MYLAR 0.1uF 5% 50V	
C724	1-124-034-51	ELECT 33uF 20% 16V	
C725	1-126-157-11	ELECT 10uF 20% 16V	
C726	1-130-495-00	MYLAR 0.1uF 5% 50V	
C727	1-130-495-00	MYLAR 0.1uF 5% 50V	
C728	1-124-034-51	ELECT 33uF 20% 16V	
C729	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C730	1-162-294-31	CERAMIC 0.001uF 10% 50V	

CD MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C731	1-161-379-00	CERAMIC	0.01uF	20%	25V	C781	1-124-903-11	ELECT	1uF	20%	50V
C732	1-161-379-00	CERAMIC	0.01uF	20%	25V	C782	1-124-443-00	ELECT	100uF	20%	10V
C733	1-124-034-51	ELECT	33uF	20%	16V	C783	1-126-157-11	ELECT	10uF	20%	16V
C734	1-124-034-51	ELECT	33uF	20%	16V	C784	1-126-157-11	ELECT	10uF	20%	16V
C735	1-124-902-00	ELECT	0.47uF	20%	50V	C785	1-130-493-00	MYLAR	0.068uF	5%	50V
C736	1-124-034-51	ELECT	33uF	20%	16V	C786	1-130-493-00	MYLAR	0.068uF	5%	50V
C737	1-130-489-00	MYLAR	0.033uF	5%	50V	C787	1-124-903-11	ELECT	1uF	20%	50V
C738	1-124-927-11	ELECT	4.7uF	20%	100V	< CONNECTOR >					
C739	1-124-903-11	ELECT	1uF	20%	50V	* CN701	1-695-138-11	CONNECTOR 8P			
C740	1-161-379-00	CERAMIC	0.01uF	20%	25V	* CN702	1-695-137-11	CONNECTOR 8P			
C741	1-161-379-00	CERAMIC	0.01uF	20%	25V	* CN703	1-695-152-11	CONNECTOR 6P			
C742	1-124-902-00	ELECT	0.47uF	20%	50V	* CN704	1-580-046-11	CONNECTOR 2P			
C743	1-161-379-00	CERAMIC	0.01uF	20%	25V	* CN705	1-695-056-11	PLUG, CONNECTOR 6P			
C744	1-124-472-11	ELECT	470uF	20%	10V	* CN706	1-695-056-11	PLUG, CONNECTOR 6P			
C745	1-162-207-31	CERAMIC	22PF	5%	50V	* CN707	1-695-058-11	CONNECTOR 29P			
C746	1-162-207-31	CERAMIC	22PF	5%	50V	< DIODE >					
C747	1-126-176-11	ELECT	220uF	20%	10V	D701	8-719-107-94	DIODE	1SS202-1		
C748	1-161-379-00	CERAMIC	0.01uF	20%	25V	D702	8-719-107-94	DIODE	1SS202-1		
C749	1-162-219-31	CERAMIC	68PF	5%	50V	D703	8-719-107-94	DIODE	1SS202-1		
C750	1-162-219-31	CERAMIC	68PF	5%	50V	D704	8-719-107-94	DIODE	1SS202-1		
C751	1-162-294-31	CERAMIC	0.001uF	10%	50V	D705	8-719-107-94	DIODE	1SS202-1		
C752	1-124-443-00	ELECT	100uF	20%	10V	D706	8-719-107-94	DIODE	1SS202-1		
C753	1-162-199-31	CERAMIC	10PF	5%	50V	D707	8-719-107-94	DIODE	1SS202-1		
C754	1-162-199-31	CERAMIC	10PF	5%	50V	D708	8-719-107-94	DIODE	1SS202-1		
C755	1-124-903-11	ELECT	1uF	20%	50V	< IC >					
C756	1-124-360-00	ELECT	1000uF	20%	16V	IC701	8-752-055-04	IC	CXA1081S		
C757	1-162-292-31	CERAMIC	680PF	10%	50V	IC702	8-752-032-33	IC	CXA1182S		
C758	1-162-215-31	CERAMIC	47PF	5%	50V	IC703	8-752-328-46	IC	CXD1130Q		
C759	1-162-215-31	CERAMIC	47PF	5%	50V	IC704	8-759-076-43	IC	GM76C28		
C760	1-124-443-00	ELECT	100uF	20%	10V	IC705	8-752-819-88	IC	CXP5084-624Q		
C762	1-162-294-31	CERAMIC	0.001uF	10%	50V	IC706	8-759-501-65	IC	BA6294		
C763	1-161-379-00	CERAMIC	0.01uF	20%	25V	IC707	8-759-501-65	IC	BA6294		
C764	1-124-443-00	ELECT	100uF	20%	10V	IC708	8-759-148-89	IC	uPD6376CX		
C765	1-162-282-31	CERAMIC	100PF	10%	50V	IC709	8-759-076-52	IC	GL4558		
C766	1-162-282-31	CERAMIC	100PF	10%	50V	IC710	8-759-076-44	IC	KIA7039P		
C767	1-161-379-00	CERAMIC	0.01uF	20%	25V	IC712	8-759-076-52	IC	GL4558		
C768	1-161-379-00	CERAMIC	0.01uF	20%	25V	< TRANSISTOR >					
C769	1-161-379-00	CERAMIC	0.01uF	20%	25V	Q701	8-729-201-53	TRANSISTOR	2SA1015-GR		
C770	1-161-379-00	CERAMIC	0.01uF	20%	25V	Q702	8-729-206-21	TRANSISTOR	RN1003		
C771	1-124-903-11	ELECT	1uF	20%	50V	Q703	8-729-206-21	TRANSISTOR	RN1003		
C772	1-124-903-11	ELECT	1uF	20%	50V	Q704	8-729-281-53	TRANSISTOR	2SC1815-GR		
C773	1-161-375-00	CERAMIC	0.0022uF	20%	50V	Q705	8-729-206-28	TRANSISTOR	RN1210		
C774	1-161-375-00	CERAMIC	0.0022uF	20%	50V	Q706	8-729-900-63	TRANSISTOR	DTA124ES		
C775	1-162-294-31	CERAMIC	0.001uF	10%	50V	Q708	8-729-201-53	TRANSISTOR	2SA1015-GR		
C776	1-162-294-31	CERAMIC	0.001uF	10%	50V						
C777	1-162-215-31	CERAMIC	47PF	5%	50V						
C778	1-162-215-31	CERAMIC	47PF	5%	50V						
C779	1-124-443-00	ELECT	100uF	20%	10V						
C780	1-124-903-11	ELECT	1uF	20%	50V						

CD MAIN

Ref. No.	Part No.	Description	Remark
Q751	8-729-206-28	TRANSISTOR RN1210	
Q752	8-729-206-28	TRANSISTOR RN1210	
Q753	8-729-206-28	TRANSISTOR RN1210	
Q754	8-729-206-28	TRANSISTOR RN1210	
Q755	8-729-900-63	TRANSISTOR DTA124ES	
Q756	8-729-281-53	TRANSISTOR ZSC1815-GR	
Q757	8-729-900-63	TRANSISTOR DTA124ES	
Q758	8-729-206-28	TRANSISTOR RN1210	
< RESISTOR >			
R701	1-249-433-11	CARBON 22K 5% 1/4W	
R702	1-249-417-11	CARBON 1K 5% 1/4W	
R703	1-249-433-11	CARBON 22K 5% 1/4W	
R704	1-249-417-11	CARBON 1K 5% 1/4W	
R706	1-249-417-11	CARBON 1K 5% 1/4W	
R707	1-247-883-00	CARBON 150K 5% 1/4W	
R708	1-249-429-11	CARBON 10K 5% 1/4W	
R709	1-249-441-11	CARBON 100K 5% 1/4W	
R710	1-249-437-11	CARBON 47K 5% 1/4W	
R711	1-249-438-11	CARBON 56K 5% 1/4W	
R712	1-247-885-00	CARBON 180K 5% 1/4W	
R713	1-249-441-11	CARBON 100K 5% 1/4W	
R715	1-249-429-11	CARBON 10K 5% 1/4W	
R716	1-249-441-11	CARBON 100K 5% 1/4W	
R717	1-247-895-00	CARBON 470K 5% 1/4W	
R718	1-249-437-11	CARBON 47K 5% 1/4W	
R719	1-247-886-11	CARBON 200K 5% 1/4W	
R720	1-249-422-11	CARBON 2.7K 5% 1/4W	
R721	1-249-428-11	CARBON 8.2K 5% 1/4W	
R722	1-247-903-00	CARBON 1M 5% 1/4W	
R723	1-249-421-11	CARBON 2.2K 5% 1/4W	
R724	1-249-417-11	CARBON 1K 5% 1/4W	
R725	1-249-425-11	CARBON 4.7K 5% 1/4W	
R726	1-249-435-11	CARBON 33K 5% 1/4W	
R727	1-249-437-11	CARBON 47K 5% 1/4W	
R728	1-249-429-11	CARBON 10K 5% 1/4W	
R729	1-249-441-11	CARBON 100K 5% 1/4W	
R730	1-249-425-11	CARBON 4.7K 5% 1/4W	
R731	1-249-435-11	CARBON 33K 5% 1/4W	
R732	1-249-429-11	CARBON 10K 5% 1/4W	
R733	1-249-441-11	CARBON 100K 5% 1/4W	
R734	1-249-405-11	CARBON 100 5% 1/4W	
R735	1-249-437-11	CARBON 47K 5% 1/4W	
R736	1-249-437-11	CARBON 47K 5% 1/4W	
R737	1-249-417-11	CARBON 1K 5% 1/4W	
R738	1-249-437-11	CARBON 47K 5% 1/4W	
R739	1-249-405-11	CARBON 100 5% 1/4W	
R740	1-249-441-11	CARBON 100K 5% 1/4W	
R741	1-249-405-11	CARBON 100 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R742	1-249-441-11	CARBON 100K 5% 1/4W	
R743	1-249-441-11	CARBON 100K 5% 1/4W	
R744	1-249-435-11	CARBON 33K 5% 1/4W	
R745	1-249-435-11	CARBON 33K 5% 1/4W	
R746	1-249-435-11	CARBON 33K 5% 1/4W	
R747	1-249-410-11	CARBON 270 5% 1/4W	
R748	1-249-429-11	CARBON 10K 5% 1/4W	
R751	1-247-806-11	CARBON 91 5% 1/4W	
R752	1-249-397-11	CARBON 22 5% 1/4W	
R753	1-249-405-11	CARBON 100 5% 1/4W	
R754	1-249-435-11	CARBON 33K 5% 1/4W	
R755	1-247-876-11	CARBON 75K 5% 1/4W	
R756	1-215-457-00	METAL 33K 1% 1/6W	
R757	1-215-453-00	METAL 22K 1% 1/6W	
R758	1-215-457-00	METAL 33K 1% 1/6W	
R759	1-215-453-00	METAL 22K 1% 1/6W	
R760	1-249-417-11	CARBON 1K 5% 1/4W	
R761	1-247-893-11	CARBON 390K 5% 1/4W	
R762	1-215-453-00	METAL 22K 1% 1/6W	
R763	1-215-457-00	METAL 33K 1% 1/6W	
R764	1-215-453-00	METAL 22K 1% 1/6W	
R765	1-249-436-11	CARBON 39K 5% 1/4W	
R766	1-215-457-00	METAL 33K 1% 1/6W	
R767	1-249-435-11	CARBON 33K 5% 1/4W	
R768	1-215-429-00	METAL 2.2K 1% 1/6W	
R769	1-215-433-00	METAL 3.3K 1% 1/6W	
R770	1-247-895-00	CARBON 470K 5% 1/4W	
R771	1-249-441-11	CARBON 100K 5% 1/4W	
R772	1-249-441-11	CARBON 100K 5% 1/4W	
R773	1-249-395-11	CARBON 15 5% 1/4W	
R774	1-249-425-11	CARBON 4.7K 5% 1/4W	
R775	1-249-425-11	CARBON 4.7K 5% 1/4W	
R776	1-249-437-11	CARBON 47K 5% 1/4W	
R777	1-249-437-11	CARBON 47K 5% 1/4W	
R778	1-249-437-11	CARBON 47K 5% 1/4W	
R779	1-249-437-11	CARBON 47K 5% 1/4W	
R780	1-249-433-11	CARBON 22K 5% 1/4W	
R781	1-249-433-11	CARBON 22K 5% 1/4W	
R782	1-249-427-11	CARBON 6.8K 5% 1/4W	
R783	1-249-429-11	CARBON 10K 5% 1/4W	
R784	1-247-887-00	CARBON 220K 5% 1/4W	
R785	1-247-887-00	CARBON 220K 5% 1/4W	
R786	1-249-395-11	CARBON 15 5% 1/4W	
R787	1-249-414-11	CARBON 560 5% 1/4W	
R788	1-249-414-11	CARBON 560 5% 1/4W	
R789	1-249-409-11	CARBON 220 5% 1/4W	
R790	1-249-409-11	CARBON 220 5% 1/4W	
R791	1-249-435-11	CARBON 33K 5% 1/4W	
R792	1-249-435-11	CARBON 33K 5% 1/4W	

CD MAIN

POWER

Ref. No.	Part No.	Description	Remark
R793	1-249-433-11	CARBON 22K 5% 1/4W	
R794	1-247-895-00	CARBON 470K 5% 1/4W	
< VARIABLE RESISTOR >			
RV701	1-241-931-11	RES, ADJ, CARBON 22K	
RV702	1-241-931-11	RES, ADJ, CARBON 22K	
RV703	1-241-931-11	RES, ADJ, CARBON 22K	
RV704	1-241-933-11	RES, ADJ, CARBON 2.2K	
RV705	1-241-931-11	RES, ADJ, CARBON 22K	
< VIBRATOR >			
X701	1-579-633-11	OSCILLATOR, CRYSTAL 8.4672MHz	
X702	1-579-634-11	OSCILLATOR, CERAMIC 3.58MHz	

*	A-3275-536-A	POWER BOARD, COMPLETE	

△	1-533-243-11	HOLDER, FUSE	
	7-682-546-04	SCREW +PTT 3X5 (S)	
< CAPACITOR >			
C130	1-130-495-00	MYLAR 0.1uF 5% 50V	
C181	1-124-903-11	ELECT 1uF 20% 50V	
C182	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C183	1-162-288-31	CERAMIC 330PF 10% 50V	
C184	1-124-443-00	ELECT 100uF 20% 10V	
C185	1-124-360-00	ELECT 1000uF 20% 16V	
C186	1-124-443-00	ELECT 100uF 20% 10V	
C187	1-130-497-00	MYLAR 0.15uF 5% 50V	
C270	1-126-101-11	ELECT 100uF 20% 16V	
C271	1-126-101-11	ELECT 100uF 20% 16V	
C273	1-124-360-00	ELECT 1000uF 20% 16V	
C274	1-124-472-11	ELECT 470uF 20% 10V	
C330	1-130-495-00	MYLAR 0.1uF 5% 50V	
C381	1-124-903-11	ELECT 1uF 20% 50V	
C382	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C383	1-162-288-31	CERAMIC 330PF 10% 50V	
C384	1-124-443-00	ELECT 100uF 20% 10V	
C385	1-124-360-00	ELECT 1000uF 20% 16V	
C386	1-124-443-00	ELECT 100uF 20% 10V	
C387	1-130-497-00	MYLAR 0.15uF 5% 50V	
C901	1-161-494-00	CERAMIC 0.022uF 25V	
C902	1-161-494-00	CERAMIC 0.022uF 25V	
C903	1-161-494-00	CERAMIC 0.022uF 25V	
C904	1-161-494-00	CERAMIC 0.022uF 25V	
C905	1-124-636-00	ELECT 3300uF 20% 25V	
< CONNECTOR >			
* CN204	1-695-140-11	CONNECTOR 13P	

Ref. No.	Part No.	Description	Remark
* CN205	1-573-596-11	WAFER, CONNECTOR 4P	
* CN209	1-580-047-11	CONNECTOR 3P	
* CN901	1-695-141-11	CONNECTOR 4P	
* CN902	1-695-142-11	CONNECTOR 3P	
* CN903	1-580-046-11	CONNECTOR 2P	
< DIODE >			
D201	8-719-989-16	DIODE 1S2472	
D202	8-719-160-34	DIODE RD6.8F-B2	
D203	8-719-989-16	DIODE 1S2472	
D204	8-719-109-89	DIODE RD5.6ES-B2	
D209	8-719-989-16	DIODE 1S2472	
△D901	8-719-028-07	DIODE PBM203	
< FUSE >			
△F902	1-532-826-11	FUSE, GLASS TUBE (2.5A 250V)	
< IC >			
IC204	8-759-230-13	IC TA8207K	
< JACK >			
J202	1-507-806-00	JACK 1P (HEADPHONES)	
△J901	1-540-009-11	INLET, AC (←AC IN)	
< LINE FILTER >			
△LF901	1-424-664-11	COIL, CHOKE	
< TRANSISTOR >			
Q210	8-729-200-38	TRANSISTOR 2SC2236-0	
Q211	8-729-283-42	TRANSISTOR 2SB834	
Q212	8-729-230-79	TRANSISTOR 2SD880-YGR	
< RESISTOR >			
R130	1-249-423-11	CARBON 3.3K 5% 1/4W	
R131	1-249-423-11	CARBON 3.3K 5% 1/4W	
R181	1-249-410-11	CARBON 270 5% 1/4W	
△R182	1-217-639-00	FUSIBLE 2.2 5% 1/4W F	
R183	1-249-405-11	CARBON 100 5% 1/4W	
R271	1-249-417-11	CARBON 1K 5% 1/4W	
R272	1-249-408-11	CARBON 180 5% 1/4W	
R273	1-249-437-11	CARBON 47K 5% 1/4W	
R274	1-249-411-11	CARBON 330 5% 1/4W	
△R275	1-217-639-00	FUSIBLE 2.2 5% 1/4W F	
R330	1-249-423-11	CARBON 3.3K 5% 1/4W	
R331	1-249-423-11	CARBON 3.3K 5% 1/4W	
R381	1-249-410-11	CARBON 270 5% 1/4W	
△R382	1-217-639-00	FUSIBLE 2.2 5% 1/4W F	
R383	1-249-405-11	CARBON 100 5% 1/4W	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

REC SW (RVS)

REC SW

TUNER

Ref.No.	Part No.	Description	Remark
< SWITCH >			
S105	1-692-179-11	SWITCH, PUSH (BASS BOOST)	

*	1-644-449-11	REC SW (RVS) BOARD (CFD-30)	

< CONNECTOR >			
* CN111	1-695-148-11	CONNECTOR 3P (CFD-30)	
< SWITCH >			
S202	1-692-180-11	SWITCH, PUSH (1 KEY) (REC/PB)	

*	1-644-450-11	REC SW BOARD (CFD-20)	

< CONNECTOR >			
* CN111	1-695-175-11	CONNECTOR 3P (CFD-20)	
< SWITCH >			
S202	1-692-180-11	SWITCH, PUSH (1 KEY) (REC/PB)	

*	A-3275-533-A	TUNER BOARD, COMPLETE	

< CAPACITOR >			
C1	1-162-206-31	CERAMIC 20PF 5% 50V	
C2	1-102-959-00	CERAMIC 22PF 5% 50V	
C3	1-162-195-31	CERAMIC 4.7PF 10% 50V	
C4	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C5	1-124-034-51	ELECT 33uF 20% 16V	
C6	1-162-287-31	CERAMIC 270PF 10% 50V	
C7	1-124-126-00	ELECT 47uF 20% 10V	
C8	1-124-925-11	ELECT 2.2uF 20% 100V	
C9	1-124-126-00	ELECT 47uF 20% 10V	
C10	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C11	1-124-927-11	ELECT 4.7uF 20% 100V	
C12	1-124-903-11	ELECT 1uF 20% 50V	
C13	1-130-484-00	MYLAR 0.012uF 5% 50V	
C14	1-130-484-00	MYLAR 0.012uF 5% 50V	
C15	1-124-903-11	ELECT 1uF 20% 50V	
C16	1-124-902-00	ELECT 0.47uF 20% 50V	
C17	1-124-927-11	ELECT 4.7uF 20% 100V	
C18	1-124-907-11	ELECT 10uF 20% 50V	
C19	1-124-463-00	ELECT 0.1uF 20% 50V	
C20	1-124-463-00	ELECT 0.1uF 20% 50V	

Ref. No.	Part No.	Description	Remark		
C21	1-102-942-00	CERAMIC	5.0PF	+/-0.5PF	50V
C23	1-162-294-31	CERAMIC	0.001uF	10%	50V
C29	1-162-199-31	CERAMIC	10PF	5%	50V
C34	1-162-193-31	CERAMIC	3.3PF	10%	50V
C41	1-161-379-00	CERAMIC	0.01uF	20%	25V
< FILTER >					
CF1	1-567-198-71	FILTER, CERAMIC			
CF2	1-567-163-11	FILTER, CERAMIC			
CF3	1-527-870-00	FILTER, CERAMIC			
< CONNECTOR >					
* CN1	1-695-157-11	CONNECTOR 2P			
* CN3	1-695-136-11	CONNECTOR 5P			
< VARIABLE CAPACITOR >					
CT1-4	1-151-624-11	CAP, VAR, POLYETHYLENE			
VC1-4					
< DIODE >					
D1	8-719-107-94	DIODE	1SS202-1		
D2	8-719-107-94	DIODE	1SS202-1		
D3	8-719-918-76	LED	GL-3PR9	(FM STEREO)	
< FILTER >					
FL1	1-236-895-11	FILTER, BAND PASS			
< IC >					
IC1	8-752-050-20	IC	CXA1238S		
< COIL >					
L1	1-460-118-11	COIL (WITH CORE)			
L2	1-406-393-11	COIL, FM OSC			
L3	1-402-508-11	ANTENNA, FERRITE-ROD	(MW)		
L4	1-406-040-00	COIL (OSC)			
< RESISTOR >					
R1	1-249-441-11	CARBON	100K	5%	1/4W
R2	1-249-421-11	CARBON	2.2K	5%	1/4W
R3	1-249-415-11	CARBON	680	5%	1/4W
R4	1-249-405-11	CARBON	100	5%	1/4W
R5	1-249-427-11	CARBON	6.8K	5%	1/4W
R6	1-249-427-11	CARBON	6.8K	5%	1/4W
R7	1-247-887-00	CARBON	220K	5%	1/4W
R8	1-249-421-11	CARBON	2.2K	5%	1/4W
R9	1-247-887-00	CARBON	220K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R12	1-249-411-11	CARBON	330	5%	1/4W

TUNER

Ref. No.	Part No.	Description	Remark
R16	1-249-433-11	CARBON 22K 5%	1/4W
R17	1-249-423-11	CARBON 3.3K 5%	1/4W
R22	1-249-415-11	CARBON 680 5%	1/4W
R29	1-249-400-11	CARBON 39 5%	1/4W
R40	1-249-429-11	CARBON 10K 5%	1/4W
R41	1-249-429-11	CARBON 10K 5%	1/4W
R59	1-249-425-11	CARBON 4.7K 5%	1/4W
< VARIABLE RESISTOR >			
RV1	1-241-931-11	RES, ADJ, CARBON 22K	
< SWITCH >			
S1	1-692-172-11	SWITCH, LEVER (BAND)	
< TRANSFORMER >			
T1	1-404-925-11	IFT, AM	

MISCELLANEOUS			

102	1-696-020-11	CABLE, FLAT	
△405	8-848-137-11	PICKUP, OPTICAL KSS-210B	
ANT1	1-501-537-11	ANTENNA, TELESCOPIC	
* CNP102	1-695-174-11	CONNECTOR 4P (CFD-20)	
* CNP110	1-695-149-11	CONNECTOR 8P (CFD-30)	
* CNP110	1-695-176-11	CONNECTOR 4P (CFD-20)	
* CNP701	1-695-170-11	CONNECTOR 8P	
* CNP702	1-695-150-11	CONNECTOR 8P	
△F902	1-532-826-11	FUSE, GLASS TUBE (2.5A/250V)	
HE901	1-543-558-11	ERASE HEAD (CFD-20)	
HE901	3-379-192-01	ERASE HEAD ASSY (CFD-30)	
HRP901	1-543-424-21	REC/PB HEAD (CFD-20)	
HRP901	X-3365-055-1	REC/PB HEAD ASSY (CFD-30)	
M701	X-2625-132-1	MOTOR GEAR ASSY (MB) (SLED)	
M702	X-2625-133-2	MOTOR ASSY, SPINDLE	
M901	3-379-148-01	MOTOR ASSY (REEL/CAPSTAN) (CFD-20)	
M901	3-379-149-01	MOTOR ASSY (REEL/CAPSTAN) (CFD-30)	
S201	1-571-556-11	SWITCH, LEAF (MAIN) (CFD-30)	
S201	1-572-394-11	SWITCH, LEAF (MAIN) (CFD-20)	
S203	1-571-745-11	SWITCH, LEAF (FWD/RVS) (CFD-30)	
SP101	1-544-743-11	SPEAKER R	
SP301	1-544-743-11	SPEAKER L	
△T901	1-450-970-11	TRANSFORMER, POWER	

Ref. No.	Part No.	Description	Remark
ACCESSORIES & PACKING MATERIALS			

△1-557-287-11		CORD, POWER (E)	
△1-690-952-11		CORD, POWER (EXCEPT E)	
*	3-379-618-01	CUSHION (TOP)	
*	3-379-619-01	INDIVIDUAL CARTON (CFD-20)	
*	3-379-623-01	INDIVIDUAL CARTON (CFD-30)	

*	3-379-685-01	CUSHION (BOTTOM)	
	3-754-849-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-754-849-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-754-849-81	MANUAL, INSTRUCTION (CHINESE) (E)	

#1	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	
#2	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
#3	7-682-546-04	SCREW +PTT 3X5 (S)	
#4	7-682-149-15	SCREW +P 3X10	
#5	7-685-647-79	SCREW, TAPPING	
#6	7-621-255-40	SCREW +P 2X6	
#7	7-685-133-19	SCREW +P 2.6X6 TYPE2	
#8	7-621-255-35	SCREW +BVTT 2X5 (S) (CFD-30)	
#9	7-628-253-90	SCREW +PS 2.6X4	
#10	7-621-255-15	SCREW +P 2X3	
#11	7-621-255-55	SCREW, TOTSU P 2X8 (CFD-20)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.